

## SEQUENCE LISTING

<110> Lodes, Michael J.  
Wang, Tongtong  
Mohamath, Raodoh  
Indirias, Carol Y.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
AND DIAGNOSIS OF LUNG CANCER

<130> 210121.512

<140> US

<141> 2001-04-11

<160> 440

<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo sapien

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 <213> Homo sapien

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atgcacctga	agaaacctgg	gggctttgac	atatccttgt	tctacagaga	tatcatcagc	480
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&lt;210&gt; 7

&lt;211&gt; 566

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 7

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gtccagccac	aacttccagc	tggagagcgt	caacaagctg	taccaggacg	aaaaggcggg	480
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&lt;210&gt; 8

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 8

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aaatgtctcg	aaaaatttca	aaggagtcaa	aaaaagtga	catctctagt	tctctggaat	300
ctgaagatat	tagtttagaa	acaacagttc	ctacggatga	tatttcctca	tcagaagagc	360
gagagggcaa	agtcagaatc	accaggcagc	taattgaacg	aaaagactac	ttcataatat	420
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&lt;210&gt; 9

&lt;211&gt; 415

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(415)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 9

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agtgatcgag	atctcttggc	tgtggtgttc	tatgggtaccg	agaaagacaa	aaattcantg	360
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 <212> DNA  
 <213> Homo sapien

<400> 10						
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 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (1)...(505)  
 <223> n = A,T,C or G

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gccgtcaggt	acagagggca	ccacagtgc	caggaactgc	tgtcctttca	taccangttt	360
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 <211> 513  
 <212> DNA  
 <213> Homo sapien

<400> 12						
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ggatgaagca	taccagggga	agaagctggt	gccggatgac	ccctatgaga	aagcttgcca	360
gaagatgatc	ttagagttgt	tttctaaggt	gccatccttg	gtaggaagct	ttattagaag	420
ccaaaataaa	gaagactatg	atggcctaaa	agaagaattt	cgtaaagaat	ttaccaagct	480
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<210> 13  
 <211> 375  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(375)  
 <223> n = A,T,C or G

<400> 13						
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taagtgaacc	tgctg					375

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 <211> 298  
 <212> DNA  
 <213> Homo sapien

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taatatagga	aggtgttctt	taggtatggt	acaggattac	tttaaaccat	ttgactttcg	120
ctccaaagtt	atgttggtag	tatagcaaat	tatgatgaat	agctttaatt	gtatgtttaa	180
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 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(506)  
 <223> n = A,T,C or G

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gtcacagggc	accgctggct	gaaggggggc	gtggtgctga	aggaggacgc	gctgcccggc	240

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acaaggccct	tattgaaccg	gcttcc				506

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 <211> 286  
 <212> DNA  
 <213> Homo sapien

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tttaaattggc	aaaaacaaaa	catgattttg	tgcaattaac	aaagctactg	caagaaaaat	240
aaaacacttc	ttggtaacac	aaaaaaaaaa	aaaaaaaaaa	ctcgag		286

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 <211> 387  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(387)  
 <223> n = A,T,C or G

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gaaattgccca	aatatgatgg	aaagtgg				387

<210> 18  
 <211> 415  
 <212> DNA  
 <213> Homo sapien

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actataaata	ttcaggaaga	gatagtgttg	tttttttggt	tgatgcctcc	aaggctatgt	180
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gtacccgaga	aagacaaaaa	ttcagtgaat	tttaaaaaata	tttacgtctt	acaggagctg	360
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<210> 19  
 <211> 466  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 19

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gggaaaaaccg	aagccagaat	gaaaaagtgg	gaaaaacttt	tgaaagcttg	cccgtgccat	420
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<210> 20

<211> 296

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 20

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tgtgagctag	agtgaagcag	aaatctagga	agatgagctc	caagatggtc	ataagtgaac	180
caggactgaa	ttgggatatt	tccccaaaa	atggccttaa	gacatttttc	tctcagaaaa	240
ttataaagat	cattccatgg	cttccaagtt	taaaaagaac	ttacgtgggt	tttatc	296

<210> 21

<211> 328

<212> DNA

<213> Homo sapien

<400> 21

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gtggggatgt	ggccgggggg	cgtcggggaag	cgtcactgct	tgatgtccga	gctcagcgat	180
gaagccagcg	agccgggaact	cctgaaccgc	agcttgtcca	tgtggcacgg	gctcgggaca	240
caggtcagcg	gggaggagct	ggatgtcccc	ctggatcttc	acacagctgc	ttcattggcc	300
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<210> 22

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<212> DNA

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<220>

<221> misc\_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 22

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ggagatctcc	gcgcaaataa	gggcgagact	gaaaaatcaa	gtcactcagt	tgaaggagca	120
agtacctggt	ttcacaccac	gcctggcaat	attacaggtt	ggcaacagag	atgattccaa	180
tctttatata	aatgtgaagc	tgaaggctgc	tgaagagatt	gggatcaaag	ccactcacat	240
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agactctact	gtacatgggt	tcttagtgca	gctaccttta	gattcagaga	attccattaa	360
cactgaagaa	gtgatcaatg	ctattgcacc	cganaaggat	gtggatggat	tgactagcat	420
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<210> 23

<211> 517

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(517)

<223> n = A,T,C or G

<400> 23

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taaggaaaaa	ctcattgcac	cagttgcgga	agaagaggca	acagttccaa	acaataagat	120
cactgtagtg	ggtgttgac	aagttggtat	ggcgtgtgct	atcagcattc	tgggaaagtc	180
tctggctgat	gaacttgctc	ttgtggatgt	tttggaagat	aagcttaaag	gagaaatgat	240
ggatctgcag	catgggagct	tatttcttca	gacacctaaa	attgtggcag	ataaagatta	300
ttctgtgacc	gccaatctta	agattgtagt	ggtaactgca	ggagtccgtc	agcaagaagg	360
ggagagtccg	ctcaatctgg	tgcagagaaa	tgttaatgtc	ttcaaattca	ttattcctca	420
gatcgtcaag	tacagtccgt	attgcatcat	aattgtggnt	tccaaccag	tggacattct	480
tacgtatgtt	acctggaaac	taagtggatt	acccaaa			517

<210> 24

<211> 196

<212> DNA

<213> Homo sapien

<400> 24

gaattcggca	cgaggggtggc	actatgtggc	gcgtctgtgc	gcgacgggct	cagaatgtag	60
ccccatgggc	gggactcgag	gctcgggtga	cggccttgca	ggaggtaccc	ggaactccac	120
gagtgacctc	gcgatctggc	ccggctcccc	ctcgtcgcaa	cagcgtgact	acagggtatg	180
gcgggggtccg	ggcact					196

<210> 25

<211> 365

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(365)

<223> n = A,T,C or G

```
<210> 26
<211> 321
<212> DNA
<213> Homo sapien
```

<400>	26							
ctcgagtttt	tttttttttt	tttttttgta	cgaaatggct	aagtttattc	aacatctcgg			60
atattcatct	ggatataggg	ttgttttgt	gatacaatac	atattcacct	taactggtgc			120
tactgcaaag	aaagctttct	tgacctgcac	gacgtgcttc	anagcttctc	tccaccaatt			180
ggaaccaccc	aaagcctagt	ctanacaaa	gtgctctgga	gaaaaaaaaa	aaaaacaaaa			240
aacagcaaac	agaaaacagt	tgtgcccca	aaagtactca	gaagtcatat	gttatattaca			300
attgggtttg	tgtgggatgg	g						321

<400> 27						
gaattcggca	cgagcaagga	tgaggagaac	aatccccttg	agacagaata	tggcctttct	60
gtctacaagg	atcaccagac	catcaccatc	caggagatgc	cggagaaggc	cccagccggc	120
cagctccccc	gctctgtgga	cgtcattctg	gatgatgact	tggtgataa	agcgaagcct	180
ggtgaccggg	ttcaggtggt	gggaacctac	cgttgcttc	ctgaaaagaa	gggaggctac	240
acctctggga	ccttcaggac	tgtcctgatt	gcctgtaatg	ttaagcagat	gagcaaagga	300
tgtcagccc	tctttctctg	ctgaggatat	agccaagatc	aagaagttca	gtaaaaccog	360
atccaaggat	atctttgacc	atctggccaa	gtcattggcc	ccaagtatcc	atgggcata	420
ctatgtcaag	aaagcaatcc	tctgcttgct	cttg			454

<400>	28						
gaattcggca	cgaggttggt	ctgaaattca	tgcaagcttc	cgaagatctt	ctcaaggaac		60
actacgttga	cctgaaggac	cgtccattct	ttgccggcct	ggtgaaatac	atgcactcag		120
ggccggtagt	tgccattggtc	tgggaggggc	tgaatgtggt	gaaaacgggc	cgagtcatgc		180
tcggggagac	caacctgca	gactccaagc	ctgggaccat	ccgtggagac	ttctgcatac		240
aagttggcag	qaacattata	catqgcagtq	attctgtgga	gagtq			285

```
<210> 32
<211> 275
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(275)  
 <223> n = A,T,C or G

<400> 32  
 gaattcggca cgagcgaagg aggacggagg cttcagacac tcggaagcct ttgaggcact 60  
 ccagcaaaaag agtcagggac tggactccag gctccagcac gtggaggatg ggggtgctctc 120  
 catgcagggtg gcttctgcgc gccagaccga gagcctggag tccctcctgt ncaagagcca 180  
 ggagcacgag cagcgcctgg ccgccctgca ggggcgcctg gaaggcctcg ggtcctcata 240  
 ggcanaccan gatggcctgc cagcacggtg aggag 275

<210> 33  
 <211> 516  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(516)  
 <223> n = A,T,C or G

<400> 33  
 gaattcggca cgagggggcc tgggcggtga ctgtgggaaa ctcggaaca agctcacatc 60  
 ttcctgtggg aaaccttcta gcaacaggat gagtctgcag tggactgcag ttgccacctt 120  
 cctctatgcg gaggtctttg ttgtgttgct tctctgcatt tccttcattt ctccataaag 180  
 atggcagaag attttcaagt cccggtcgtt ggagttgtta gtgtcctatg gcaacacctt 240  
 ctttgtgggt ctcatgtgca tccttgtgct gttggtcacg gatgccgtgc gcgaaattcg 300  
 gaagtatgat gatgtgacgg aaaaggtgaa cctccagaac aatcccgggg ccatggagca 360  
 cttccacatg aagnttttcc gtgccagag gaatctctac attgctggct tttccttgct 420  
 gctgtccttc ctgcttagac gcctgggtgac tctcatttcc aacaggccac gctgctggcc 480  
 ttcaatgaac ctttaaaaac aggcgagag tncat 516

<210> 34  
 <211> 446  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(446)  
 <223> n = A,T,C or G

<400> 34  
 gaattcggca cgagacagaa atgnctaaag aagagaagga ccctggaatg ggtgcaatgg 60  
 gtggaatggg aggtggtatg ggaggtggca tgttctaact cctagactag tgctttacct 120  
 ttattaatga actgtgacag gaagoccaaag gcagtgttcc tcccaataac ttcagagaag 180  
 tcanttgag aaaatgaaga aaaaggctgg ctgaaaatca ctataacat cagttactgg 240  
 tttcagttga caaaatatat aatgggtttac tgctgtcatt gtccatgcct acagataatt 300  
 tattttgtat ttttgaataa aaaacatttg tacattcctg atactgggta caagagccat 360  
 gtaccagtgt actgctttca acttaaatca ctgaggcatt tttactacta ttctgttaaa 420  
 atcaggattt tagtgcttgc ccccca 446

<210> 35  
 <211> 440  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(440)  
 <223> n = A,T,C or G

<400> 35  
 gaattcggca cgagggtttat ttgtccccac cagaaggttg ggggtgggcgg gcctagaaca 60  
 cagcgtgcgg cgggttcccc ggtggagcca gcgcagacag cgtgggtccc tgcggctctt 120  
 angcgaaggt ggagttgttc canccacat tggcccgct ttcattgtcg taatagttga 180  
 tgtagacctt gtccgggctg atgcgcaggc gctctgccag caggccgcac agcagcttgc 240  
 tgtaggagcg gttctgcgcg ccgccgatct tgccgatgct gtgcangctg canagcgcg 300  
 acggctcgct ggagccgccg aaggccatga gctggtccgg gaccacgtgc accgctatgt 360  
 actggggggg cttgccggtg gcctgcgcca nctgctgggt gagctcggag aggaaccgtc 420  
 cggcacggag gcgcggggca 440

<210> 36  
 <211> 373  
 <212> DNA  
 <213> Homo sapien

<400> 36  
 gaattcggca cgaggccaaa cgtaccaaga aagtcgggat cgtcggtaaa tacgggaccc 60  
 gctatggggc ctccctccgg aaaatggtga agaaaattga aatcagccag cacgccaagt 120  
 acacttgctc tttctgtggc aaaaccaaga tgaagagacg agctgtgggg atctggcact 180  
 gtggttcctg catgaagaca gtggctggcg gtgacctggac gtacaatacc acttccgctg 240  
 tcacggtaaa gtccgccatc agaagactga aggagttgaa agaccagtag acgctcctct 300  
 actctttgag acatcactgg cctataataa atgggttaat ttatgtaaca aaaaaaaaaa 360  
 aaaaaaactc gag 373

<210> 37  
 <211> 565  
 <212> DNA  
 <213> Homo sapien

<400> 37  
 gaattcggca cgaggggggca cgggcacccc cgcggtcccc gggaggctag agatcatgga 60  
 agggaagtgg ttgctgtgta tgttactggt gcttggaact gctattgttg aggctcatga 120  
 tggacatgat gatgatgtga ttgatattga ggatgacctt gacgatgtca ttgaagaggt 180  
 agaagactca aaaccagata ccaactgctc tccttcatct cccaaggtta cttacaaagc 240  
 tccagttcca acaggggaag tatattttgc tgattctttt gacagaggaa ctctgtcagg 300  
 gtggatttta tccaaagcca agaaagacga taccgatgat gaaattgcca aatatgatgg 360  
 aaagtgggag gtagaggaaa tgaaggagtc aaagcttcca ggtgataaag gacttgtgtt 420  
 gatgtctcgg gccaaagcatc atgccatctc tgctaaactg aacaagccct tcctgtttga 480  
 caccaagcct ctcttgttca gtatgaggtt aatttcctaa atggaataga atgtggtggt 540  
 gcctatgtga aactgctttc taaaa 565

<210> 38  
 <211> 566  
 <212> DNA



<220>

 $\langle 222 \rangle \quad (1) \dots (566)$ 

<400> 38

<210> 39

<212> DNA

<220>

 $\langle 222 \rangle \quad (1) \dots (364)$ 

<400> 39

<210> 40

<212> DNA

<400> 40

<210> 41

<212> DNA

<213> Homo sapien

<400> 41

gaattcggca	cgagacttgg	gaaaatgaat	tcagaggagg	aagatgaagt	gtggcaggtg	60
atcataggag	ccagagctga	gatgacttca	aaacaccaag	agtacttgaa	gctggaaacc	120
acttgatga	ctgcagttgg	tctttcagag	atggcagcag	aagctgcata	tcaaactggc	180
gcagatcagg	cctctataac	cgccaggaat	cacattcagc	tggtgaaact	gcaggtggaa	240
gaggtgcacc	agctctcccg	gaaagcagaa	accaagctgg	cagaagcaca	gatagaagag	300
ctccgtcaga	aaacacagga	ggaaggggag	gagcgggctg	agtcggagca	ggaggcctac	360
ctgctgtagg	attgagggcc	tgagcacact	gccctgtctc	cccactcagt	ggggaaagca	420
ggggcagatg	ccaccctgcc	cagggttggc	atgactgtct	gtgcaccgag	aagaggcggc	480
aggtcctgcc	ctgccaatca	ggcgagacgc	ctttgtgagc	tgtgagtgcc	tcctgtggtc	540
tcaggcttgc	gcttggacct	ggttct				566

<210> 42

<211> 386

<212> DNA

<213> Homo sapien

<400> 42

gaattcggca	cgagggcagc	tcgagtccac	cagcagcgcc	gtccgcttga	ccgagatgct	60
gcgggcctgt	cagttatcgg	gtgtgaccgc	cgccgcccag	agttgtctct	gtgggaagtt	120
tgtcctccgt	ccattgcgac	catgccgcag	atactctact	tcaggcagct	ctgggttgac	180
tactggcaaa	attgctggag	ctggcctttt	gtttgttggg	ggaggtattg	gtggcactat	240
cctatatgcc	aaatgggatt	cccattttccg	ggaaagtgtg	gagaaaacca	taccttactc	300
agacaaactc	ttcgagatgg	ttcttgggtcc	tgcagcttat	aatgttccat	tgccaaagaa	360
atcgattcaa	gtcgggtcca	ctaaaa				386

<210> 43

<211> 514

<212> DNA

<213> Homo sapien

<400> 43

gaattcggca	cgagggcaaa	acctccacct	cctgatgaat	ttcttgactg	tttccaaaag	60
tttaaacacg	gatttaacct	tctggccaaa	ctgaagtctc	atattcagaa	tcctagtgtc	120
gcagatttgg	ttcacttttt	gtttactcca	ttaaatatgg	tgggtcaggc	aacaggaggt	180
cctgaactag	ccagttcagt	acttagtccc	ctattgaata	aggacacaat	tgatttctta	240
aattatactg	tcaatggtga	tgaacggcag	ctgtggatgt	cattgggagg	aacttggatg	300
aaagccagag	cagagtggcc	aaaagaacag	tttattccac	catatgttcc	acgattccgc	360
aatggctggg	agccccaat	gctgaacttt	atgggagcca	caatggaaca	agatctttat	420
caactggcag	aatctgtggc	aaatgtagca	gaacatcagc	gcaaacagga	aataaaaaaga	480
ttatcccaga	gcatttcagt	gtatcagaat	atta			514

<210> 44

<211> 467

<212> DNA

<213> Homo sapien

<400> 44

gaattcggca	cgagactaga	gccgcacac	atggggactt	ctgcaaatac	agagactcgg	60
attaaaggtg	gagaagatgg	agctaaagga	actgcttatt	taatacattt	gaacaacttt	120
tggggctactt	agaaggtgct	ttgaaacctg	catttgatta	agcaagaatt	cgcttgcaag	180
ttaaggggca	ctccacagaa	ggatgttatt	atcaagtcag	atgcaccgga	cactttgtta	240

```
<210> 45
<211> 344
<212> DNA
<213> Homo sapien
```

[illegible]

```
<220>  
<221> misc_feature  
<222> (1)...(303)  
<223> n = A,T,C or G
```

```
<400> 46
gaattcgggca cgagnggggaa cacaagtatg tgccaccaca ccttggtaac ttttaaattg      60
tttttagata tgaggtctga ccatgttgcc catgccatta ttattccttt tgataaaggt      120
gaatttaggc taaactgtga aagaatgtac agcaaatggc tctgttaatt cttctcatag      180
gaggacaggt tactgttaat agagaacata tgtatgtaat ggctaaaaaat agggcagtag      240
aaaaggaatg taacttctca cctcctttga gaatgnaaag aaagaaagaa aaaaggatgg      300
tac                                                    303
```

```
<210> 47
<211> 364
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(364)
<223> n = A,T,C or G
```

```
<400> 47
gaattcggca cgaganatag ttcctttctc taaagtggat gaggaacaaa tgaaatataa      60
atcggagggg aagtgccttc ctgttttggg attttgtaaa tcttctcagg ttcagagaaag    120
```

attctttcatg	ggaaatcaag	ttctaaaggt	ctttgcagca	agagatgatg	aggcagctgc	180
agttgcactt	tcctccctga	ttcatgcttt	ggatgactta	gacatgggtg	ccatagttcg	240
atatgcttat	gacaaaagag	ctaactctca	agtcggcggtg	gcttttcctc	atatcaagca	300
taactatgag	tgtttagtgt	atgtgcagct	gcctttcatg	gaagacttgc	ggcaatacat	360
gttt						364

<210> 48  
 <211> 284  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(284)  
 <223> n = A,T,C or G

<400> 48						
gaattcggca	cgagagcagc	tggaggcact	ggagaaggag	aaggctgcc	agctggagat	60
tctgcagcag	caacttcagg	tggctaata	agcccgggac	agtgccca	cctcagtgac	120
acaggcccag	cgggagaagg	cagagctgag	ccggaagggtg	gaggaactcc	aggcctgtgt	180
tgagacagcc	cgccaggaac	agcatgaggc	ccaggcccag	gttgcagagc	tagagttgca	240
gctgcggtct	gagcagcaaa	aagcaactga	ganagaaagg	gtgg		284

<210> 49  
 <211> 313  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(313)  
 <223> n = A,T,C or G

<400> 49						
gaattcggca	cgagggtttat	tatagctcat	acctgggacc	gattaagggtg	tcaacatttt	60
aaaattactc	aagatattaa	ccagaaaaga	tgattatggc	ctttaaaact	attggacaaa	120
ctgatgctat	ttaacattgt	tcacagccat	ttaatttgaa	taacaaattt	tagattctaa	180
gtaggccata	acttctttgc	aaaacaattg	atttataaag	gtacagtttc	agaaggnaac	240
agcatgagac	tagtcttcct	ataggcacat	tttagtagac	tgctcttctc	atccctggtc	300
aaggagcttc	tct					313

<210> 50  
 <211> 522  
 <212> DNA  
 <213> Homo sapien

<400> 50						
gaattcggca	cgaggggacag	ccaacaaaag	cagcttcttg	aagttcaact	tcagcaaaat	60
aaggagctgg	aaaataaata	tgctaaatta	gaagaaaagc	tgaaggaatc	tgaggaagca	120
aatgaggatc	tgcggagggtc	ctttaatgcc	ctacaagaag	agaaacaaga	tttatctaaa	180
gagattgaga	gtttgaaagt	atctatatcc	cagctaacaa	gacaagtaac	agccttgcaa	240
gaagaaggta	ctttaggact	ctatcatgcc	cagttaaaag	taaaagaaga	agaggtaac	300
aggttaagt	ctttgttttc	ctcctctcaa	aagagaattg	cagaactgga	agaagaattg	360
gtttgtgttc	aaaaggaagc	tgccaagaag	gtaggtgaaa	ttgaagataa	actgaagaaa	420

```

gaattaaagc atcttcatca tgatgcaggg ataatgagaa atgaaactga aacagcagaa      480
gagagagtgg cagagctagc aagagatttg gtggagatgg aa                          522

```

```

<210> 51
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 51
gaattcggca cgaggagcac ttccggctcct cgcgcgctcg cgtccctctg tgcgggctcc      60
agccgcagcc ttagcttcgg ctcccggctt gggtggcgcg gccgtgccct cgttttggcc      120
tccgaacgcg gctcgaatgg caagccaaaa ttcccttcgg atagaatatg atacctttgg      180
tgaactaaag gtgccaaatg ataagtatta tggcgcccag accgtgagat ctacgatgaa      240
ctttaagatt ggaggtgtga cagaacgcac gccaacccca gttattaaag cttttggcat      300
cttgaagcga gcggccgctg aagtaaacca ggattatggt cttgatccaa agattgctan      360
tgcaataatg aaggcagcag angaggtagc tgaaggtaaa ttaaatgatc attttcctct      420
cgtggtatgg cagactggat caggaactca gacaaatatg aat                          463

```

```

<210> 52
<211> 423
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(423)
<223> n = A,T,C or G

```

```

<400> 52
gaattcggca cgagaaagcg cagccgagcc cagcgccccg cacttttctg agcagacgtc      60
cagagcagag tcagccagca tgaccgagcg ccgcgtcccc ttctcgctcc tgcggggccc      120
cagctgggac cccttcgcg actggtaccc gcatagccgc ctcttcgacc aggccttcgg      180
gctgccccgg ctgccggagg agtggtcgca gtggttaggc ggcagcagct ggccaggcta      240
cgtgcgcccc ctgccccccg ccgccatcga gagccccgca gtggccgcgc ccgcctacag      300
ccgcgcgctc agccggcaac tcagcagcgg ggtctcggag atccggcaca ctgcggaccg      360
ctggcgcgctg tccctggatg tcaaccactt cgcgccggac gagctgacgg tcaagaccaa      420
nga                                          423

```

```

<210> 53
<211> 474
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

```

```

<400> 53

```

gaattcggca	cgagggaatc	tctacattgc	tggtttttcc	ttgctgctgt	ccttcctgct	60
tagacgcctg	gtgactctca	tttcgcagca	ggccacgctg	ctggcctcca	atgaagcctt	120
taaaaagcag	gcgagagtg	ctagttaggc	ggccaagang	tacatggagg	agaatgacca	180
gctcaagaan	ggagctgctg	ttgacggagg	caagttggat	gtcgggaatg	ctgaggtgaa	240
gtttgaggaa	gagaacagga	gcctgaaggc	tgacctgcag	aagctaaagg	acgagctggc	300
cagcactaag	caaaaactag	agaaagctga	aaaccagggt	ctggccatgc	ggaagcagtc	360
tgagggcctc	accaaggagt	acgaccgctt	gctggaggag	cacgcaaagc	tgagggctgc	420
agtagatggt	cccatggaca	agaaggaaga	gtaagggcct	tccttcctcc	cctg	474

&lt;210&gt; 54

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 54

gaattcggca	cgagctcgtg	ccgaatcggc	acgagggatc	ggtcgcctga	gaggtatcac	60
ctcttctggg	ctcaagatgg	acaacaagaa	gcgcctggcc	tacgccatca	tccagttcct	120
gcatgaccag	ctccggcacg	ggggcctctc	gtccgatgct	caggagagct	tggaagtgcg	180
catccagtgc	ctggagactg	cgtttggggg	gacggtagaa	gacagtgacc	ttgcgctccc	240
tcagactctg	ccggagatat	ttgaagcggc	tgccacgggc	aaggagatgc	cgcaggacct	300
gaggagccca	gcgcgaaccc	cgcttccgga	ggaggactca	gcagaggcag	agcgctcaa	360
aaccgaagga	aacgagcaga	tgaaagtggg	aaactttgaa	gctgccgtgc	atttctacgg	420
aaaagccatc	gagctcaacc	cagccaacgc	cgtctatttc	tgcaacagaa	gcc	473

&lt;210&gt; 55

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(365)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 55

gaattcggca	cgagtgattg	aggatcagtt	gggtgccaga	cactctctta	ggtgtcagag	60
ctccagttta	cattacacag	ataaggtccc	tgccccccag	cgaagctggc	attaaagtca	120
gcaaataaat	gttcaggatt	ttgataagtg	ctgtaaagga	aaaaagacct	gtaacagggg	180
ggaatgactg	gggagggggc	gaggctctat	ctaggcaggg	atggaccaga	cntgagagtg	240
accaggaggt	tcgagccagt	tgagagggga	caagaaaggc	cttctgggca	ggggcactta	300
caggtacaga	gccctgcag	cagaataagc	ttctcctacc	ggagaggcaa	aaagaaggcc	360
ttttg						365

&lt;210&gt; 56

&lt;211&gt; 517

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 56

gaattcggca	cgagggacgc	cgttttggtg	cctgagatga	agttggagcc	cttgtttttg	60
acattggatc	ctatactgtg	agagctgggt	atgctgggtg	ggactgcccc	aaggtggatt	120
ttcctacagc	tattggtatg	gtggtagaaa	gagatgacgg	aagcacatta	atggaaatag	180
atggcgataa	aggcaaacaa	ggcgggtccc	cctactacat	agataactaat	gctctgcgtg	240
ttccgaggga	gaatatggag	gccatttcac	ctctaaaaaa	tgggatgggt	gaagactggg	300

```
<210> 57
<211> 237
<212> DNA
<213> Homo sapien
```

```
<210> 58
<211> 485
<212> DNA
<213> Homo sapien
```

```
<210> 59
<211> 514
<212> DNA
<213> Homo sapien
```

```
<210> 60
<211> 336
<212> DNA
<213> Homo sapien
```

<220>

<221> misc\_feature  
 <222> (1)...(336)  
 <223> n = A,T,C or G

<400> 60  
 gaattcggca cgaggccgcc ggggtgctggt caccggggca ggcaaaggta tagggcgcg 60  
 cacggtccag gcgctgcaag cgacggggcg gcgggtggtg gctgtgagcc ggactcaggc 120  
 ggatcttgac agccttgctc gcgagtgccc ggggatagaa cccgtgtgcg tggacctggg 180  
 tgactgggag gccaccgagc gggcgctggg cagcgtgggc cccgtggacc tgctggtgaa 240  
 caacgccgct gtcgccctgc tgcagccctt nctggaggtc accaaggagg cctttgacag 300  
 atcctttgag gtgaacctgc gtgcggtcat ccaggt 336

<210> 61  
 <211> 515  
 <212> DNA  
 <213> Homo sapien

<400> 61  
 gaattcggca cgaggctgcc tgagaggtat cacctcttct gggctcaaga tggacaacaa 60  
 gaagcgctg gcctacgcca tcatccagtt cctgcatgac cagctccggc acgggggcct 120  
 ctcgctccgat gctcaggaga gcttggaagt cgccatccag tgcttgaga ctgcgtttgg 180  
 ggtgacggta gaagacagtg accttgcgct ccctcagact ctgccggaga tatttgaagc 240  
 ggctgccacg ggcaaggaga tgccgcagga cctgaggagc ccagcgcgaa ccccgcttc 300  
 cgaggaggac tcagcagagg cagagcgctt caaaaccgaa ggaaacgagc agatgaaagt 360  
 ggaaaacttt gaagctgccc tgcatcttcta cggaaaagcc atcgagctca acccagccaa 420  
 cgccgtctat ttctgcaaca gagccgcagc ctacagcaaa ctcggaact acgcaggcgc 480  
 ggtgcaggac tgtgagcggg ccatctgcat tgacc 515

<210> 62  
 <211> 417  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 gaattcggca cgagagccaa cctcctggaa gggcacgcgc gtgctgaggt gtacccttca 60  
 gccaagccaa tgatcaaatt ccaatcacc tatgaggaa agttggaaca gcagagactg 120  
 gcagtgcagc aggtggagga ggcccagcag ctgcgggaac accaggaagc tttgcaccag 180  
 cagaggctgc aggggcactt actacggcag caggaacagc agcagcagca ggtggcaaga 240  
 gagatggccc tgcagaggca ggctgagctt gaggagggcc ggccgcagca ccaggagcag 300  
 ctccggcagc aagctcatta tgatgctatg gataatgata tcgttcaggg agcagaggac 360  
 cagggaatcc aaggagagga aggagcctat gaaagagaca accagcacca agatgaa 417

<210> 63  
 <211> 455  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(455)  
 <223> n = A,T,C or G

<400> 63  
 gaattcggca cgagggccgg gcttgggctg cgtggagaat actttttgcg atgcctactg 60



```

gagactttga ttcgaagccc agttgggccc accaggtgga ggaggagggg gaggacgaca 120
aatgtgtcac cagcgagctc ctcaagggga tccctctggc cacaggtgac accagcccag 180
agccagantc actgccggga gctccactgc cgcctcccaa ggaggtcatc aacggaaaca 240
taaagacagt gacagagtac aagatagatg aggatggcaa gaagttcaag attgtccgca 300
ccttcaggat tgagaccccg aaggcttcaa aggtgtgcgc aaggaggaag aactggaaga 360
agttcgggaa ctcaagagttt gacccccccg gacccaatgt ggccaccacc actgtcagtg 420
acgatgtctc tatgacgttc atcaccagca aagag 455

```

```

<210> 64
<211> 517
<212> DNA
<213> Homo sapien

```

```

<400> 64
gaattcggca cgagccatgt tggggtttgt gggtcgggtg gccgctgctc cggcctccgg 60
ggccttgccg agactcaccc cttcagcgtc gctgccccca gctcagctct tactgcgggc 120
cgctccgacg gcggtccatc ctgtcagggg ctatgcggcg caaacatctc cttcgccaaa 180
agcaggcgcc gccaccgggc gcatcgtggc ggtcattggc gcagtgggtg acgtccagtt 240
tgatgaggga ctaccaccaa ttctaaatgc cctggaagtg caaggcaggg agaccagact 300
ggttttggag gtggcccagc atttgggtga gagcacagta aggactattg ctatggatgg 360
tacagaaggc ttggttagag gccagaaagt actggattct ggtgcaccaa tcaaaattcc 420
tgttggtcct gagactttgg gcagaatcat gaatgtcatt ggagaaccta ttgatgaaag 480
aggtcccatc aaaaccaaac aatttgctcc cattcat 517

```

```

<210> 65
<211> 519
<212> DNA
<213> Homo sapien

```

```

<400> 65
gaattcggca cgagtggagg tcggcgatat ggaagatggg cagctttccg actcggattc 60
cgacatgacg gtcgcaccca gcgacaggcc gctgcaattg ccaaaagtgc taggtggcga 120
cagtgcstat agggccttcc agaacacggc aactgcatgt gcaccagtat cacattatcg 180
agctgttgaa agtgtggatt caagtgaaga aagtttttct gattcagatg atgatagctg 240
tctttggaaa cgcaaacgac agaaatgttt taacctcct cccaaaccag agccttttca 300
gtttggccag agcagtcaga aaccacctgt tgctggagga aagaagatta acaacatatg 360
gggtgctgtg ctgcaggaac agaatcaaga tgcagtggcc actgaacttg gtatcttggg 420
aatggagggc actattgaca gaagcagaca atccgagacc tacaattatt tgcttgccaa 480
gaaacttagg aaggaatctc aagagcattc caaaagatc 519

```

```

<210> 66
<211> 517
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(517)
<223> n = A,T,C or G

```

```

<400> 66
gaattcggca cgagggcggc tgaggaaagc aggaggaggt ggcgggcggc ggaagatggc 60
tccttcacct accaaacgca aagaccgctc agatgagaag tccaaggatc gctcaaaaga 120
taaagggggc accaaggagt cgagtgagaa ggatcgcggc cgggacaaaa cccgaaagag 180

```

gcgagcgct	tccagtggta	gcagcagtac	caggtctcgg	tccagctcga	cttccagctc	240
aggctccagc	accagcactg	gctcaagcag	tggtccagc	tcttcctcag	catccagcgc	300
ctcaggaagc	tccagcacct	ccgcagctc	cagctctagc	agctctcttg	gctctccaag	360
tccttctcgg	cgcacacacg	acaacaggag	gcgtcccg	tccaaatcca	aaccacctaa	420
aagagatgaa	aaggagagga	aaaggcggag	cccctctcct	aagcccacca	aagtgcacat	480
tgggagactc	acccggaatg	tgacaaagga	tcacatc			517

&lt;210&gt; 67

&lt;211&gt; 517

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(517)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 67

gaattcggca	cgaggcgccg	tgacagcggt	gagtgtngc	ggcggcgacg	gcaaaccg	60
agctgccggc	cggcgccggg	gaggaggacg	cgggtgcggg	ctaggaaacg	gagctgcggg	120
cggaggtccc	atgttgggaa	gcggcgccgt	tcgtgcttgt	tagcgggaat	ccgggagccg	180
cggggtgagc	tgggcggggc	cgggccctaa	gtgaagatgg	aggccccgct	gcggcctgcc	240
gcggacatcc	tgaggcgga	ccgcagcag	gactacgaac	tcgtccagag	ggcggcagc	300
ggcacctacg	gggacgtcta	taaggccaga	aatgtacaca	caggagagct	ggctgcagta	360
aaaatcatta	aattggagcc	tgagatgat	ttttctttga	ttcaacaaga	aatatttatg	420
gttaaagaat	gtaaacattg	taacatcggt	gcctactttg	ggagttatct	tagtcgggaa	480
aaactatgga	tttgtatgga	atactgtggt	ggcggat			517

&lt;210&gt; 68

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 68

gaattcggca	cgaggtcggt	tcctgtctatt	ccggtttctc	cactccgtcc	cccgcgggtc	60
tgctctgtgt	gccatggacg	gcattgtccc	agatatagcc	gttggtaaca	agcggggatc	120
tgacgagctt	ttctctactt	gtgtcactaa	cggaccgttt	atcatgagca	gcaactcggc	180
ttctgcagca	aacggaaatg	acagcaagaa	gttcaaaggt	gacagccgaa	gtgcaggcgt	240
cccctctaga	gtgatccaca	tcgggaagct	ccccatcgac	gtcacggagg	gggaagtcat	300
ctccctgggg	ctgccttttg	ggaaggtcac	caacctcctg	atgctgaagg	ggaaaaacca	360
ggccttcatc	gagatgaaca	cggaggaggc	tgccaacacc	atggtgaact	actacacctc	420
ggtgaccctt	gtgctgcgcg	gccagcccat	ctacatccag	ttctccaacc	acaaggagct	480
gaagaccgac	agctctccca	accaggcgcg	ggccca			516

&lt;210&gt; 69

&lt;211&gt; 455

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 69

gaattcggca	cgaggagcca	tagagcctct	gcctcgatgc	cgttttgccc	ccgtcttttg	60
gacacgccga	cccggcgctc	cccaaggaa	gctgtcccaa	caagattccc	gtgaaagagc	120
acccgtgtcg	ccccctcccg	tggaacttctg	tgccgccccg	tccacacctg	ttcttgggtg	180
catgtgggtt	ttcggttcc	ggcggtccag	gacggggcgg	gggctcccct	cccatctcgt	240

```
<210> 70
<211> 569
<212> DNA
<213> Homo sapien
```

<400>	70						
gaattcggca	cgagcagaac	gcagctctgc	tctgctngag	gaggtgcaga	gcctccggga		60
ggaggctgag	aaacagcggg	tggcttcaga	gaacctgcgg	caggagctga	cctcacaggc		120
tgagcgtgcg	gaggagctgg	gccaagaatt	gaaggcgtgg	caggagaagt	tcttcagaa		180
agagcaggcc	ctctccacc	tgcagctcga	gcacaccagc	acacaggccc	tggtgagtga		240
gctgctgcc	gctaagcacc	tctgccagca	gctgcaggcc	gagcaggccg	ctgccagaa		300
acgccaccgt	gaggagctgg	agcagagcaa	gcaggccgct	gggggactgc	gggcagagct		360
gctgcgggcc	cagcgggagc	ttggggagct	gattcctctg	cggcagaagg	tggcagagca		420
ggagcgaaca	gctcagcagc	tgcgtggcga	gaaggccagc	tatgcagagc	agctgagcat		480
gctgaagaag	cgcgatggcc	tgtctgcaga	gggaaccgg	gggctgggtg	agcgggccaa		540
ccttgqccgg	caqtttctqg	aaqtqqaqt					569

<400> 71						
gaattcggca	cgagtggcga	cgccccctaa	gcgggcgggcg	gtggaggcca	cgggggagaa	60
agtgtctgcg	tacgagacct	tcatcagtga	cgtgctgcag	cgggacttgc	gaaaggtgct	120
ggaccatcga	gacaaggtat	atgagcagct	ggccaaatac	cttcaactga	gaaatgtcat	180
tgagcgactc	caggaagcta	agcactcgga	gttatatatg	caggtggatt	tgggctgtaa	240
cttcttcgtt	gacacagtg	tcccagatac	ttcacgcata	tatgtggccc	tgggatatgg	300
ttttttcctg	gagttgacac	tggcagaagc	tctcaagttc	attgatcgta	agagctctct	360
cctcacagag	ctcagcaaca	gcctcaccaa	ggactccatg	aatatcaaag	cccatatcca	420
catgttgcta	gaggggctta	gagaactaca	aggcctgcag	aatttccag	agaagcctca	480
ccattgaact	cttcccccca	tcctcagaca	ttaaagagcc	tgaatgccaa	aaaaaaaaaa	540
aaaaaaaaac	tcgac					555

```
<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G
```

```
<210> 73
<211> 254
<212> DNA
<213> Homo sapien
```

<400>	73						
gaattcggca	cgagcctgga	caaggagaga	gtgcggnatgc	tgagagccga	gccagcaat		60
cccgatcctc	tgagtcgtga	agaagggagg	cagcgagggg	gttgggttg	gggcctgagg		120
caagccccca	ggctccgctc	ttgccagagg	gacaggagcc	atggctcaga	aaatggactg		180
tggtagcggc	ctctctggct	tccaggctga	ggcctccgta	gaagacagcg	ccttgcttat		240
gcagacctg	atcq						254

<400> 74						
gaattcggca	cgagcagccc	toggctgagc	cgcgccgcac	catgcccgcc	gtggacaagc	60
tcttgctaga	ggaggcgttg	caggacagcc	cccagactcg	ctctttactg	agcgtgtttg	120
aagaagatgc	tggcaccctc	acagactata	ccaaccagct	gctccaggca	atgcagcgcg	180
tctatggagc	ccagaatgag	atgtgcctgg	ccacacaaca	gctttctaag	caactgctgg	240
catatgaaaa	acagaacttt	gctcttggca	aaggtgatga	agaagtaatt	tcaacactcc	300
actatttttc	caaagtgggtg	gatgagctta	atcttctcca	tacagagctg	gctaaacagt	360
tggcagacac	aatggttcta	cctatcatac	aattccgaga	aaaggatctc	acagaagtaa	420
gcacttttaa	ggatctattt	ggactcgcta	gcaatgagca	tgacctctca	atggcaaaat	480
acagcaggct	gcctaagaaa	aaqgagaatg	agaagg			516

```

<400> 75
gaattcggca cgagcagggg cgacgccagc aatgggagct gactgatatg gtggtgtggg      60
tgactggagc ctcgagtggg attggtgagg agctggctta ccagttgtct aaactaggag     120
tttctcttgt gctgtcagcc aqaagagtgc atgagctgga aaggggtgaaa aqaagatgcc     180

```

```
<210> 76
<211> 349
<212> DNA
<213> Homo sapien
```

```
<210> 77
<211> 469
<212> DNA
<213> Homo sapien
```

```
<210> 78
<211> 399
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G
```

<210> 79

<400> 79

<210> 80

 $\langle 220 \rangle$ 

<400> 80

<210> 81

 $\langle 220 \rangle$ 

<400> 81

atattttant	aatgcagagc	tatagtctca	attgttactt	tataaggtgg	ttttattaac	60
aaacccaaat	cctggatttt	cctgtctttg	ctgtattttg	aaaaacacgt	gttgactcca	120
ttgtttttaca	tgtagcaaag	tctgccatct	gtgtctgctg	tattataaac	agataagcag	180
cctacaagat	aactgtattt	ataaaccact	cttcaacagc	tggctccagt	gctggtttta	240
gaacaagaat	gaagtcatth	tggagtcttt	catgtctaaa	agatttaagt	taaaaacaaa	300
gtgtttacttg	gaaggtttagc	ttctatcatt	ctggatagat	tacagatata	ataaccatgt	360
tgactatggg	ggagagacgc	tgcattccag	aaacgtctta	acacttgagt	gaatcttcaa	420
aggaccctga	cattaaatgc	tgaggcttta	atacacacat	attttatccc	aa	472

<210> 82  
 <211> 448  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(448)  
 <223> n = A,T,C or G

<400> 82  
 gttcagt gnt gccctcagag ctcttgctgt tagctggcag ctgacgctgc taggatagtt 60  
 agtttgaaa tggtaacttca taataaacta cacaaggaaa gtcagccacc gtgtcttatg 120  
 aggaattgga cctaataaat tttagtgtgc cttccaaacc tgagaatata tgcttttgga 180  
 agttaaatt taaatggctt ttgccacata catagatctt catgatgtgt gagtgtatt 240  
 ccatgtggat atcagttacc aaacattaca aaaaaatttt atggcccaa atgaccaacg 300  
 aaattgttac aatagaattt atccaatttt gatcttttta tattcttcta ccacacctgg 360  
 aaacagacca atagacattt tgggggtttta taatgggcat ttgtataaag cattactctt 420  
 tttcaataaa ttgtttttta atttaaaa 448

<210> 83  
 <211> 270  
 <212> DNA  
 <213> Homo sapien

<400> 83  
 cagtgtggtg gaattaatca ggcctcccaa atttagcagg tgctggggag gaccctaggg 60  
 agtggtttat gggggctagc tggtgaaaact gccctttcct ttctgttcta tgagtgtgat 120  
 ggtgtttgag aaaatgtggg gctatggttc aggcgcactt cacatgtgca aagatggaga 180  
 aagcactcac ctacacgttt aggcacagaa tattgattga aacattttga atgatcaaaa 240  
 ataaaatggt atttttaaaag tttcaaaaaa 270

<210> 84  
 <211> 359  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(359)  
 <223> n = A,T,C or G

<400> 84  
 tccaaagtta gacaaaatgc caggaatggt cttctctgct aacccaaagg aattgaaagg 60  
 aaccactcat tcacttctag acgacaaaat gcaaaaaagg aggccaaaga cttttggaat 120  
 ggatatgaaa gcatacctga gatctatgat cccacatctg gaatctggaa tgaaatcttc 180  
 caagtccaag gatgtacttt ctgctgctga agtaatgcaa tggctctaat ctctggaaaa 240  
 acttcttgcc aaccaaactg gtcaaaaatgt ctttgggaagt ttcctaaant ctgaattcag 300  
 tgaggagaat attgagttct ggctggcttg tgaanactat aagaaaacag agtctgac 359

<210> 85  
 <211> 371  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(371)  
 <223> n = A,T,C or G

<400> 85  
 ctgcagcccg ggggatccac tagtcnnttg tgggtggaatt cagcctacag ccgcctgggt 60  
 ctgtatccag cgccagggtcc cgccagtcctc agctgcgcgc gccccccagt cccgcacccg 120  
 ttcggcccag gctaagtttag ccttcacccat gccgggtcaaa ggaggcacca agtgcacaa 180  
 atacctgctg ttcggatttta acttcacctt ctggcttgcc gggattgctg tccttgccat 240  
 tggactatgg ctccgattcg actctcagac caagagcatc ttcgagcaag aaactaataa 300  
 taataattcc agcttctaca caggagtcta tattctgata cggagccggc gccctcatga 360  
 tgcttggtgg g 371

<210> 86  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

<400> 86  
 ctgcagcccg ggggatccac tagtttnta tgatcattaa actcattctc aggggttaaga 60  
 aaggaatgta aattttctgcc tcaatttgta cttcatcaat aagtttttga agagtgcaga 120  
 ttttttagtca ggtcttaaaa ataaactcac aaatctggat gcatttctaa attctgcaaa 180  
 tgtttcctgg ggtgacttaa caaggaataa tcccacaata tacctagcta cctaatacat 240  
 ggagctgggg ctcaaccac tgtttttaag gatttgcgct aacttggggc tgaggaaaaa 300  
 taagtagtnc gaggaagtag ttttttaaat tgagcttata gatanaaaca gaatatcaac 360  
 ttaattatga aattgttaga acctgttctc ttgtatctga atctgattgc aattactatt 420  
 gtactgatag actccagcca ttgcaagtct cagatatctt agctgtgtag tgattcttga 480  
 aattcttttt aagaaaaatt 500

<210> 87  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(550)  
 <223> n = A,T,C or G

<400> 87  
 ctgcagcccg ggggatccac tagtccantg tgggtggaatt ccaggaactg gaccaggunc 60  
 tggagcggat ctccaccatg cgccttcogg atgagcgggg ccctctggag cacctctact 120  
 ccctgcacat cccaactgt gacaagcatg gcctgtacaa cctcaaacag tgcaagatgt 180  
 ctctgaacgg gcagcgtggg gagtgctggt gtgtgaaccc caacaccggg aagctgatcc 240  
 agggagcccc caccatccgg ggggaccccg agtgcacat cttctacaat gagcagcagg 300  
 aggctcggcg ggtgcacacc cagcggatgc agtagaccgc agccagccgg tgccctggcg 360  
 ccctgcccc cgccctctc caaacaccgg cagaaaacgg agagtgcctt ggtggtgggt 420



```
<210> 88
<211> 429
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G
```

```
<210> 89
<211> 477
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(477)  
<223> n = A,T,C or G
```

```
<210> 90
<211> 310
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(310)  
<223> n = A,T,C or G
```

```
<210> 91
<211> 532
<212> DNA
<213> Homo sapien
```

<400> 91							
ctgcagcccg	ggggatccac	tagtcatgat	gtgtgttgta	ttttaaaaaat	tatctgcaac		60
cttaattcag	ctgaagtact	ttatatattca	aaagaatgaa	taacattgat	aataaaatcg		120
ctactttaag	gggtttgtcc	aaaataaata	ttgtggcctt	atatatcaca	ctattgtaga		180
aagtattatt	taattttaaat	ggatgcaggt	tgtctactaa	agaaagatta	tatataacta		240
tgctaattgt	tcataatcaa	cagaaaccaa	gatagagcta	caaactcagc	tgtacagttc		300
gtacactaaa	ctcttcttgc	ttttgcatta	taaggaatta	agtctccgat	tattaggtga		360
tcaccctgga	tgatcagttt	tctgctgaag	gcacctactc	agtatctttt	cctctttatc		420
actctgcatt	ggtgaattta	atcctctcct	ttgtgttcaa	cttttgtgtg	cttttaaaat		480
cagcttttatt	ctaaaqcaaa	tcttgttcta	ctttaaaaaa	ctgnaaatgg	aa		532

[illegible]

```
<220>
<221> misc feature
```



```
<210> 97
<211> 471
<212> DNA
<213> Homo sapien
```

<400>	97						
tcgttatccg	cgatgngttd	cctggcagct	acatttcctgc	tcctggcgct	cagcaaccgt		60
gccaggccg	aaccggtga	gttcaaggac	tgcgatattc	agtctaaaag	cagcaaggcc		120
gtggtgcatg	gcatactgat	gggctccca	gttcccttc	ccattcctga	gcctgatggt		180
tctaagagtg	gaattaaactg	ccctatccaa	aaagacaaga	cctatagcta	cctgaataaa		240
ctaccagtga	aaagcgaata	tcccctcata	aaactggtgg	tggagtggca	acttcaggat		300
gacaaaaaac	aaagtctctt	ctgctgggaa	atcccagtac	agatcgtttc	tcatctctaa		360
gtgcctcatt	gagttcgggtg	catctggcca	atgagtcctgc	tgagactctt	gacagcacct		420
ccagctctgc	tgtttaacca	acagtgactt	gctctccaat	ggtatccagt	g		471

[illegible]

```
<220>  
<221> misc_feature  
<222> (1)...(416)
```

<223> n = A,T,C or G

<400> 99

caagaatgtg	cctaactggc	atanagatct	ggtacgagtg	tgtgaaaaca	tccccattgt	60
gntgngtggc	aacaaagtgg	atattaagga	caggaaagtg	aaggcgaaat	ccattgtctt	120
ccaccgaaag	aagaatcttc	agtactacga	catttctgcc	aaaagtaact	acaactttga	180
aaagcccttc	ctctggcttg	ctaggaagct	cattggagac	cctaacttgg	aatttggtgc	240
catgcctgct	ctcgccccac	cagaagttgt	catggaccca	gctttggcag	cacagtatga	300
gcacgactta	gagggttgctc	anacaactgc	tctcccgat	gaggatgatg	acctgtgaga	360
atgaagctgg	agcccanogn	cagaagtcta	gttttatang	cagctgtcct	gtgatg	416

<210> 100

<211> 441

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(441)

<223> n = A,T,C or G

<400> 100

agacaatgac	cccacggntc	ctccttatga	ctccattcaa	atctacggtt	atgaaggcag	60
gggctcagtg	gccgggtccc	tgagctccct	agagtcggcc	accacagatt	cagacttgga	120
ctatgattat	ctacagaact	ggggacctcg	ttttaagaaa	ctagcagatt	tgtatggttc	180
caaagacact	tttgatgacg	attcttaaca	ataacgatac	aaatttggcc	ttaagaactg	240
tgtctggcgt	tctcaagaat	ctanaagatg	tgtaaacagg	tattttttta	aatcaaggaa	300
aggctcattt	aaaacaggca	aagtttttaca	gagaggatac	atttaataaa	actgcgagga	360
catcaaagtg	gtaaatactg	tgaaatacct	tttctcacia	aaaggcaaat	attgaagttg	420
tttatcaact	tcgctagaaa	a				441

<210> 101

<211> 521

<212> DNA

<213> Homo sapien

<400> 101

ccagcgccca	gagagacacc	agagaaccca	ccatggcccc	ctttgagccc	ctggcttctg	60
gcatcctgtt	gttgctgtgg	ctgatagccc	ccagcagggc	ctgcacctgt	gtcccacccc	120
accacagac	ggccttctgc	aattccgacc	tcgtcatcag	ggccaagtgc	gtggggacac	180
cagaagtcaa	ccagaccacc	ttataccagc	gttatgagat	caagatgacc	aagatgtata	240
aagggttcca	agccttaggg	gatgccgtg	acatccggtt	cgtctacacc	cccgccatgg	300
agagtgtctg	cggatacttc	cacaggctcc	acaaccgcag	cgaggagttt	ctcattgctg	360
gaaaactgca	ggatggactc	ttgcacatca	ctacctgcag	tttcgtggct	ccctggaaca	420
gcctgagctt	agctcagcgc	cggggcttca	ccaagacctc	cactgttggc	tgtgaggaat	480
gcacagtgtt	tccctgttta	tccatccctt	gcaaactgca	g		521

<210> 102

<211> 520

<212> DNA

<213> Homo sapien

<400> 102

gaagaaaaag	aaattctgat	acgggacaaa	aatgctcttc	aaaacatcat	tctttatcac	60
------------	------------	------------	------------	------------	------------	----

ctgacaccag	gagttttcat	tggaaaagga	tttgaacctg	gtgttactaa	catttttaaag	120
accacacaag	gaagcaaaat	ctttctgaaa	gaagtaaagt	atacacttct	ggtgaatgaa	180
ttgaaatcaa	aagaatctga	catcatgaca	acaaatggtg	taattcatgt	tgtagataaa	240
ctcctctatc	cagcagacac	acctgttgga	aatgatcaac	tgctggaaat	acttaataaa	300
ttaatcaaat	acatccaaat	taagtttggt	cgtggtagca	ccttcaaaga	aatccccgtg	360
actgtctata	gacccacact	aacaaaagtc	aaaattgaag	gtgaacctga	attcagactg	420
attaaagaag	gtgaacaat	aactgaagt	atccatggag	agccaattat	taaaaaatac	480
accaaaatca	ttgatggagt	gcctgtggaa	ataactgaaa			520

<210> 103  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

ctgatttctca	ggctagaagt	gtcacttttc	ttatctgtac	ttccaaagca	ctttcgtata	60
tttttattat	ggcatttata	tatagttcat	ttatatatta	attttaattc	catgaacaat	120
caagtaccaa	gtataatgga	gaaggtgctc	atcctctgcc	ttccttgagc	ttctgggtga	180
tgccaggccc	aagtctttgt	ggcaccacgc	tccatgcttt	gaatactatg	tggctgaatg	240
aattttttaa	atctcaaagc	agttaaacag	caggaaagcc	cattaacttc	gtactgaaaa	300
agcaacatac	tgtgatgata	cgggatgaca	tcatttcagg	ttgggcatac	aaaaaagtaa	360
ggaagctaaa	ctaagactat	actcaccagg	ccatttagaa	gttttaaata	atgcctccac	420
tatttttttt	cttanacata	gcttttaagt	gggaaatgga	attagtaaat	gactattttt	479

<210> 104  
 <211> 324  
 <212> DNA  
 <213> Homo sapien

tgaccatcca	tatccaatgt	tctcatttaa	acattaccca	gcatcattgt	ttataatcag	60
aaactctggt	ccttctgtct	ggtggcactt	agagtctttt	gtgccataat	gcagcagtat	120
ggagggagga	ttttatggag	aaatggggat	agtcttcatt	accacaaata	aataaaggaa	180
aactaagctg	cattgtgggt	tttgaaaagg	ttattatact	tcttaacaat	tctttttttc	240
agggactttt	ctagctgtat	gactgttact	tgaccttctt	tgaaaagcat	tcccaaaatg	300
ctctatttta	gatagattaa	catt				324

<210> 105  
 <211> 541  
 <212> DNA  
 <213> Homo sapien

cttggttcca	gaacctgacg	accggcgac	ggcgacgtct	cttttgacta	aaagacagt	60
tccagtgtct	cagcctagga	gtctacgggg	accgcctccc	gcgccgccac	catgccccac	120
ttctctggca	actggaaaat	catccgatcg	gaaaacttcg	aggaattgct	caaagtgtct	180
ggggtgaatg	tgatgtgag	gaagattgct	gtggctgcag	cgtccaagcc	agcagtggag	240
atcaaacagg	agggagacac	tttctacatc	aaaacctcca	ccaccgtgcg	caccacagag	300
attaacttca	aggttgggga	ggagtttgag	gagcagactg	tggatgggag	gccctgtaag	360

```

agcctggtga aatgggagag tgagaataaa atggtctgtg agcagaagct cctgaagggg 420
gagggcccca agacctcgtg gaccagagaa ctgaccaacg atggggaact gatcctgacc 480
atgacggcgg atgacgttgt gtgcaccagg gtctacgtcc gagagtgagt ggccacaggt 540
a 541

```

```

<210> 106
<211> 391
<212> DNA
<213> Homo sapien

```

```

<400> 106
cagaagtctt ggactgcaac tacatacatg gaatatgaga ctcttaccct gggagatatg 60
attaggagaa gtggtggcca cagtcgaaaa atcccaaggc ccaaacctgc accactgact 120
gctgaaatac agcaaaagat ttgtcatttg ccaacatctt gggactggag aaatgttcat 180
ggtatcaatt ttgtcagtcg tgttcgaaac caagcatcct gtggcagctg ctactcattt 240
gcttctatgg gtatgctaga agcgagaatc cgtatactaa ccaacaattc tcagacccca 300
atcctaagcc ctcaggagggt tgtgtcttgt agccagtatg ctcaaggctg tgaaggcggc 360
ttcccatacc ttattgcagg aaagtacgcc c 391

```

```

<210> 107
<211> 462
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 107
cgtgacctca agatgngcca ctctgactgg aagagtggag agtactggat tgaccccaac 60
caaggctgca acctggatgc catcaaagtc ttctgcaaca tggagactgg tgagacctgc 120
gtgtacccca ctcagcccag tgtggcccag aagaactggg acatcagcaa gaaccccaag 180
gacaagaggc atgtctgggt cggcgagagc atgaccgatg gattccagtt cgagtatggc 240
ggccagggct ccgacctgc cgatgtggcc atccagctga ccttcctgcg cctgatgtcc 300
accgaggcct ccgagaacat cacctaccac tgcaagaaca gcgtggccta catggaccag 360
cagactgggn acctcaataa ggccctgctc ctccagggct ccaacganat ngagatccgc 420
gccgagggca acagccgctt cacctacagc gtcactgtcg at 462

```

```

<210> 108
<211> 580
<212> DNA
<213> Homo sapien

```

```

<400> 108
atataccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggcctttgaa ctttcatagg 240
aaaaatgacc caacatttct tagcatgagc tacctcatct ctagaagctg ggatggactt 300
actattcttg tttatatatt agatactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcagggctaa aaaggatta ttatttttcc tttaatgatg gtgctaaaat 420
tcttctata aaattcctta aaaataaaga tggtttaatc actaccattg tgaaaacata 480
actgttagac ttcccgtttc tgaaagaaag agcatcgttc caatgcttgt tcactgttcc 540

```

tctgtcatatc tgtatctgga atgctttgta atacttgcac

580

<210> 109  
 <211> 482  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 109  
 caggcgtgca gtttcccggc tctccgcgcg gccggggaag gtcagcgccg taatggcggt 60  
 cttggcgctcg ggaccctacc tgacccatca gcaaaagggtg ttgcggccttt ataagcgggc 120  
 gctacgccac ctogagtcgt ggtgcgtcca gagagacaaa taccgatact ttgcttggtt 180  
 gatgagagcc cggtttgaag aacataagaa tgaaaaggat atggcggaagg ccacccagct 240  
 gctgaaggag gccgaggaag aattctggta ccgtcagcat ccacagccat acatcttccc 300  
 tgactctcct gggggcacct cctatgagag atacnattgc tacaagggtcc cagaatgggtg 360  
 cttagatgac tggcatcctt ctgagaaggc aatgtatcct gattactttg ccaagagaga 420  
 acagtggaag aaactgcgga gggaaagctg ggaacgagag gttaagcagc tgcaggagga 480  
 aa 482

<210> 110  
 <211> 286  
 <212> DNA  
 <213> Homo sapien

<400> 110  
 aatcattctg cactcactgg gtgcatagca tggttagagg ggctagagat ggacagtcac 60  
 caactggcgg atatagcggg acatatgac cttagccacc agggcacaag cttaccagta 120  
 gacaatacag acagagcttt tggtagctg taactgagct atggaatagc ttctttgatg 180  
 tacctctttg ccttaaattg ctttttagtt ctaagattgt agaatgatcc tttcaaattg 240  
 taatcttttc taacagagat attttaatat acttgctttc ttaaaa 286

<210> 111  
 <211> 465  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(465)  
 <223> n = A,T,C or G

<400> 111  
 agctactggt aagatttgac agattgtctt gtctttttcc agtatatata ggtatctata 60  
 tatgtatata ctgtatatac ttatatatat ttattgtatt aaatatatac atatgtatat 120  
 gtatatataa gtatgtgtat atatgtatat atttaataca attattaaat tgtattattg 180  
 tattaatgt atacatatat acacacatat atatacatat gcatatattt aacacagtta 240  
 aaataacact aaatgtacca ttttgtttct ggctttttca gntaatgtta tgaagaattt 300  
 ttotattttg ttaaaacttct ccaaaaacat taaactgcat tatgttctga gagtagatgt 360  
 accacaatta attctacat ttctgtattg ttggccatgt aggttggttct taattttctc 420  
 attattatga atgcatgtga caatcattgg ttttgccctaa agttg 465



<210> 112  
 <211> 773  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(773)  
 <223> n = A,T,C or G

<400> 112  
 ttttttttca gttttttgcag ttggtgtggt tagcagatac tttcttagaa taaaattgat 60  
 aactcaattt gattttttaa aagttgtttt agtgatttaa aatgttgata tggaaaaata 120  
 ttaaacatta tatagatagt aggcaaattc atatcctaata tgcaatatta gcttgtagca 180  
 ttttaaatta aaatctaaat ttcttgatat attgccacat tagttgtaat gtttaataaa 240  
 tgggtggttaa agatttat ttgtaattaat ctgtgtactt agttgccatg gacctctctt 300  
 ttagcttttc ataaataaat atcctttaat accttacctc ctcccttcaa ttgactgatg 360  
 ctgggatagg gtgttctttg gagcttatct tggtaaagaa ggtcagaagt gacatataac 420  
 cctattccct aggggccgag ggtgctttcc ttacagagtt gtattttaag tgagtcaact 480  
 cctgagccag catctactaa gagaaccttc aaacataatc ataggcattt aaataatttg 540  
 aaaaatcaaa ttcttgcac taaaaacatt tatccttang ttcatttctt tataanggtt 600  
 ctctttttta aaaaaaggat tgggtatttat gaaagggaaat ggtggctggg tttttcttaa 660  
 gcattatgna aagggggagt acccctat ttctttctcc ccanggaaaa tgggtgaagg 720  
 gaacctgggc aatgcccatg attgnaaaaa ttccactttc nttgaacaat ggg 773

<210> 113  
 <211> 543  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(543)  
 <223> n = A,T,C or G

<400> 113  
 gttttttctga tttgaaaaat tggtttataat attactataa gatgagatta acaatctttg 60  
 taaaaatcag attatgtttt gggcttaaaa aaaaccctag tgttttctac tattagtgtg 120  
 ctcaaagtat ttgtgagtga tagtactcaa atgagaattg catttaattt gtacatagtt 180  
 aaatcgtctt gttttgaagc acaaagtcag gatgtttctc atcagaattt tctgtttgaa 240  
 tagggaaaag tggcattggt catgaggcat cattaaaaac ggaaagcaga ggaaaaattg 300  
 gaaagctaca gaaaaaagat tcacatgaaa aaccaagctg aagaaaaaag ctgcagaaca 360  
 gtttcgaatg cgacttaaaa aattaagcca agatgnaaat gaagctagaa agggagatct 420  
 cagaaagaag ccagccgagc ctgtcaaaca actggatgtc cagaaaaata ttcaggttcc 480  
 ccaggggaaa gcatgggtac tgggtttgan gcttggaaga nggagactgg aaggaaagaa 540  
 tga 543

<210> 114  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(550)  
 <223> n = A,T,C or G

<400> 114  
 ggaaagaggt aagcggtaaa ttacatagac tgctggagga agagtgttcc agtggagaga 60  
 aacagagcta gtgcaaaggc cctgaggtga gagcatgcct ggtgtgatcc ggggatggca 120  
 aggaggccag ggtggtggat gaggagttag caaggaggan agtacgagga taagaagcca 180  
 ncaaggaaaa atggcagtgg ggcggatcac ctanggggtct agtacgccat tgtgaagact 240  
 ttgccttttg ctccaantg gaatgggtac tcnttgaagg cttttaancc caggaanaaa 300  
 cattgattga tttanaagtt taaanggatc acntttgggt attgtggcca acaagacact 360  
 gcgggaagaa gcaagaaggg tagaaagcca gnaaaccaac tnaggaggct tttgcagtaa 420  
 tcctggntga nanacantgg tggctcnggt taaaaagttt tggaaaaaat taaaactggt 480  
 tgatggtttg tttcctgttc ttgggggcnt aggcattcca actccttacc gaaagggtta 540  
 ccccntttga 550

<210> 115  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(550)  
 <223> n = A,T,C or G

<400> 115  
 caatgtggca ottaacttan tgggtacaac tgtatcacat catgtgtgaa tcgtgagacc 60  
 actcaaatct ctctctggga aaacncggct gctccccga tggctggcag gtgttggaac 120  
 ctcggtctcc cgtccgtctc tggggcaagg tgggtttcct catgtatngc aagagtctat 180  
 cgtgcggtgc ttctctcttg gcatacagct cacagctctt tggcctatac agtgtggaaa 240  
 tttatnctcc ggtgctggag gtgttaatgg gaaagagctc ggttaaagtc acttctcact 300  
 tggcccggtg gtgatgctct acatgactga attcctctct nacggggact gacattgtat 360  
 ctatacacta natccttoca ccanagtggc gttaaggacg gtgtctggga tggaanctga 420  
 cggtacangc cccanctctc tgaaatgagt ccananatga actacctgca tacctctcta 480  
 aatcactctg gtctggcatg ntctccgtgc cgaaacatat atatgtatgt ctctccncat 540  
 acgaaaaana 550

<210> 116  
 <211> 463  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(463)  
 <223> n = A,T,C or G

<400> 116  
 cacaatgtgg tacttttactt agttggtaca actgtatcat atcatgtggg gaatcacgtg 60  
 tgacgtgact ccgcaactcc gcaccagaact aactgacag taatnacagc cngcacncca 120  
 ggtggacaaa nattgacgca atgttgtgtc antgccaccg tgccacacca cctgtggagg 180  
 acgtcagttc tctcttcccc caaaacccag gaccctctntg atctcccgac cngaggtcct 240  
 nggttgtggt gactgagcnc aaaaccgagg tcgttccactg gtacttgacg ctggagtcac 300

```
<210> 117
<211> 503
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A,T,C or G
```

```
<210> 118
<211> 560
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(560)
<223> n = A,T,C or G
```

```
<210> 119
<211> 638
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
```

<222> (1)...(638)

<223> n = A,T,C or G

<400> 119

acaaaagtgc	tacgttactt	agctgtacga	ctcgtcatat	ccatgtggtg	aatcatacgc	60
tattttatat	acngtngatc	aacatgaagg	gttngtgtct	gatcccgcg	atcaaaacac	120
gtgttacttt	gactcccaa	acctactcta	gtaataccta	ctattgacca	gaaccttaca	180
ttacataaac	agttncata	ttctgtatat	atatgtatac	tgtattctta	ataagtaagc	240
taagaaatgt	tattgaaatc	ataaggaaaa	gaaatgtatt	atacactgta	tgtattgtct	300
gtantgtact	gtctgttaca	agatgatcgt	ctgatgaatg	atgcgctgca	ccccaaactat	360
gtattacaaa	caatcncttt	tcatttgtgtc	tgacttgctt	ctgaaatact	ccacacncta	420
tngctttata	tggctcctgg	gtattcagggt	tatntatgcc	taactgaaaa	tcccagaacc	480
tgaagatatg	tttctgtgat	cncattactg	ganaaagaac	gcccatacat	actncccgng	540
tttaacggat	ccccaccta	cncgcatac	acagagtgtg	naatttgtnt	acacttntca	600
cgtanctagc	tttgaataac	gctcttcttt	ttcttccc			638

<210> 120

<211> 434

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(434)

<223> n = A,T,C or G

<400> 120

ngnnggggca	caaaagctgc	tatgtttaac	ttagcttggg	tacgactcgt	tcatatccat	60
gtgnttgant	caccgctcta	ctgccaaaga	tcattttggg	tctacgnctc	aanctgtgna	120
aangatgtgg	gttaggggan	tgaagatgca	aacncctagg	gtangggcat	ttanaactga	180
aaagganagg	aaganaagac	ctgcgaacgt	gggggataag	actanaagaa	agacgggaga	240
naatantgtc	tttgancctc	aaatggaaca	tnctccatcc	tatctgttan	aaancaccan	300
gtaaaatggg	atgtntgcac	naaagaataa	gttaaactaa	acnccggacn	gtgactanaa	360
aatgaangac	cacanatgaa	aaggcgatga	ctngcctgtt	tacctancct	gtanacctat	420
atcttcnggg	ttat					434

<210> 121

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 121

caaagcgcta	tgtaaatgag	cttgtacgac	togtcatatc	tttgtggtgta	tcataattctc	60
tctctctttc	aacaaaactcc	ccagctccac	cggggtctta	cctccgagac	cagganccaa	120
aacgancgaa	gatggctgct	ctgcgcgcca	cgcgcgcca	ctcccgctgc	ccccggcccc	180
gattccttgg	ataaaganaa	gaatcgcaag	aaaccatcaa	tgcactctc	cttctccggc	240
gctcgnctgt	ccggctccgg	gtcggatgct	gcaaagtgtg	ggatgccgag	ntgtgcgcgg	300
gcccagntgc	gcacggttac	acacaccact	ctggactgga	gaagaatcat	ttatanttct	360
gtgccgcacc	cgcgtcaaat	gcgcttgctg	aactcacgaa	agnagtcaat	ntgttctaac	420

gngctgaaca	cacgcagacc	ncacnaaagc	gccgatggga	ctgctgcogg	aacctggaga	480
ctctcaactc	caagaaccgc	gcaaccgggc	ggctccgct	cggcgntgg	gaactgtntc	540
ccccgaagt	tgttccgnt	taacgcgacc	cggttanctt	cgtnaaagg	ngggcctnaa	600
ttcggtgctt	tncnggcggg	gggtgaccgc	c			631

<210> 122  
 <211> 678  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(678)  
 <223> n = A,T,C or G

<400> 122						
caaagcggct	angttaatta	gctggtagca	ctcgtcatat	catgtggtgn	atccacacat	60
ggaatgaggg	tcccgctcac	tctggggctc	tgctgctctg	gtccatgtgc	cagatntaaa	120
tccagatgac	cagtctcttc	ctccctgtct	gcatcgggtg	ganacgaatc	accatcactt	180
gncgggcaat	caganattan	aaatgattaa	cctgggtatca	gcagaaacca	gggaaaccct	240
aagctctgat	ctttgctgca	tcagttacaa	gtggggctct	tncgccttca	cggcagtgnt	300
ctggcacaga	ttcatctcac	atcncagctg	cagcctgaaa	aatttacct	tatactgtct	360
acggataaca	ataccctgna	cttcggcaag	gactanggtg	gaatnaaacn	aatgtggctg	420
cacatctgtc	ttctcttccc	gctctgataa	cagtnaaatc	tgaactgctc	tgttgtgtgc	480
tgctgatact	totatocana	aaagccaagt	acatggaagt	gaatacgctc	ccaatcgggt	540
atccagaaat	gtccaaanag	gaacaggacg	nctacgctcg	cacncctgac	ctaaccannc	600
aatcnaaaac	caatctnccc	gcaatccctc	gggctgaccc	ctccaaaact	ccngggaatt	660
taaggaaatc	cccccccc					678

<210> 123  
 <211> 445  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(445)  
 <223> n = A,T,C or G

<400> 123						
gaggggggng	caaaagcgct	acttaattag	ctgtacgact	cgatcatatca	tgtgggtggat	60
cagcatccag	atggcataat	cggctaattgt	cctgggggttc	agatgtatgc	gatgtccggc	120
taatgtgaca	tcttgccanc	tagcttaagg	anggctggct	agaagacatt	gcagaaacag	180
gagctcggcc	cacangtttc	ccaaggtctt	caccccatte	catctccagg	gaagctcgcc	240
cagtggcact	gaatggcctc	ctcagcggag	ggtttggaat	caggctgggc	aagaactgct	300
aatcttgccg	ggactggaac	cagctctccg	gccttctctg	gctccttggt	tctgggtggg	360
aaggggaagag	ggaaaagaaa	ggaaatctcc	nggcananga	ngggacaccc	canacaccga	420
agacacnccc	ccctcctgta	actgt				445

<210> 124  
 <211> 641  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(641)  
 <223> n = A,T,C or G

<400> 124  
 gagggggggg ncaaagcgct acgttaatta gctgtacgac tcgtcatatc atgtgggtgga 60  
 tcccaactaca angttgtcac tatatattan atctatagtn gagtcngtnt tccccatccc 120  
 tgtaaacgaa ttctactattg ttggggtagt gtccctactt tcctgattaa ggatctgtgc 180  
 tggggaacaa gcnttgcata ccttatatgt agttaanatt tattaacata tcctcatgan 240  
 ctcattcaca ctgnanctct cctnaaaatn gtgtgctcct gttacattan aactaatctg 300  
 aaataaagac tctcnaatgc tgtgcaacat anttactgtg tgaaggagca gtgtnaattg 360  
 agtaccaatt tagcatcgat ttgaaacgca ccttatttga actgtgaata aacactttct 420  
 gcgtatacta ctgcttacct ccaattcngt gatttaagat actcgtggta tagatacact 480  
 gattgaagtc cgtatatatgc aaaactcctt cataggattg acatgctgat ntnagtngc 540  
 nttcaatgtg gagtatactt acntaattgc taacgtataa agtattgaan gtnnaatagt 600  
 cagcttcngt gnaaaatnng aaattagtat ggtncngttc c 641

<210> 125  
 <211> 285  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(285)  
 <223> n = A,T,C or G

<400> 125  
 agggngcag aaagcgctac gttaatnagc tgtacgaccg tccatatcag gtgggtggatc 60  
 catatgtccg gtattctctg atgtcangct tattataata gtaccaaccc ttcattctctg 120  
 aaatgtctgg ttctggttcc ctattatata ccagcactga aaatattcgt atcttagnan 180  
 caaaagcatt taaaaagagt taaaaattta ntcactacta tgcacttcaa ggggagaagc 240  
 tncactgcnt ncttgagnct angcaagatg cnagcncctt ggaag 285

<210> 126  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 126  
 agggntgac aaagcggcta cgtaatnagc ctggtagcac cgtcatatcn tgtgggtggat 60  
 ccngaacang tagcctcata atcacaacat ccattagcca cagtaaaactg attctgtaac 120  
 tccactggca atgctgattg gtaatggctg cataaaacca gtgtatcaat ttantttcgg 180  
 ttttgagaca aaatctcata ttatacnctg acatctcnaa cttcgatata tgaccaaata 240  
 cggnagaca ttattcaaan atatttacct tacanaaaaa aa 282

<210> 127  
 <211> 634

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(634)  
<223> n = A,T,C or G

```
<400> 127
acaaagcggc tacgttantic agctggtagc accgtccata tcatgtggtg gatcntgaaa      60
anctttgatc ggctgcggtg gaaacgttgt cngggccggc aagaagagcc gctgtnacaa      120
tgggtgcatg agttcagccg aacgcangac ggttctcaca cccgtgctgc ggtggtgcca      180
tgtccgcacg ggacaatatc ctggggaccg gtactggtag taactatgat gcattntgct      240
gantgtgaat gatctcaact catgccagct gtcacattca tagaattctc gtaatatatc      300
ntcgaaaaat ggtaanatgc tgtgtctttt gccgtcctgt tctatgttta tatcagtcag      360
ctggttatgac attctatcac tggttggctg atccatctct gttacnactt tgactcgtct      420
cattgccgtt gctatagtcc tcaactattgc cagatcaaaa tactgatcac tactaattcc      480
nacaananac tctggctgga ccaactgocn gtcagtgtctg tgtcttgcta tcacatttaa      540
gctactatta ctgtgttgga atgcataatc tcacaacnaa gtgcgaaatg ngtttccgcc      600
ttgaatacnc cctactttgc ccctataaag gcgg                                     634
```

<210> 128  
<211> 180  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(180)  
<223> n = A,T,C or G

```
<400> 128
caaagcgcta cgtaaantag ctgtacgacc gtccatngtc aggtgggtgga tccctgttat      60
gtcaagaaaa gtaaactgtc tottcaataa ggccctttatt tgggacaggt ttatttcctg      120
atatnatntc ttttatactc ttttctctca gaaanaaaaa agtngtntnc tcttattgtc      180
```

<210> 129  
<211> 567  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(567)  
<223> n = A,T,C or G

```
<400> 129
acaaagcgct atgttaactt agctgtacga ccgtccatng tcaggtggtg gatcctcccg      60
tgtgctggat tcataatgga tctattttaga cagttgagaa taaattattc tattacaata      120
atagatgcta atatatatat tatgctgttt ggatatctaa atatttgctc acatccttaa      180
tatattttta aaattctaac aatagtactg ttganataaa gttgagccat attganacnc      240
tcccanattg gtccatagaaa gttacaactg ttgtctctcc ttatgtcctg ttatccaccc      300
tgacgctgcc gctttatatt cttaatgant tggacggaca gtggtatccg atcgttttga      360
cgacgttaca ntactnacca tctatacgtc tacttaattg acagcagatt tcgtagcnct      420
```

cattaggatc	tgttccaacn	gttggaacat	nacnccgan	gaagttccng	tagttgtcnn	480
ctccccctat	tgaaacttat	gacnactctt	cctttacnca	catatcgacc	ttcctgacaa	540
cncctttttn	aaagaactct	tcnccca				567

<210> 130  
 <211> 557  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(557)  
 <223> n = A,T,C or G

<400> 130						
agggnnctcac	aaaagcgcta	cgttaatnag	ctgtacgact	cgtcatatca	tgtgggtggat	60
cccgcggcgt	gcggaactgga	tgtcaaaactc	tgccctgcggc	gatgcgccga	tcggcgccccg	120
ggatacgtgg	caagcgcggg	cccggcgcga	gcccactct	ccancctgg	cgtggccacc	180
cggccaagca	gaatgggtcc	tgcagctgcn	gtctagcngt	ctgcaccaac	acgggtgggtg	240
gtgcagcnaa	gtctccggaa	tcncaagggt	ctattnaatt	ctgtgggaaa	ttanatctca	300
actcaatagg	cctttccaaa	gaactattgc	atgatattca	acaagtaatt	tcttatttca	360
atacactccg	tatcagaatc	atgttctttc	tcgatctctt	ccatcctccg	aacagcctgc	420
antgactgtt	tcacctagac	aannaatata	tccttggtat	tgggactcag	cataactgtc	480
aaatatgcta	tcnactccna	tcnaagaaat	ccttccgaag	ctgtatttga	ttcattaatt	540
tatccacatt	actggat					557

<210> 131  
 <211> 655  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(655)  
 <223> n = A,T,C or G

<400> 131						
agggnggcac	aaagcgctat	gttactgagc	tgtacgnctc	gtccattgtc	ntgtgggtgga	60
tcntcggatn	aggtctgata	tacttccctgt	gngatcnaga	tgnatctncg	tagntcccc	120
cgttggtatgc	tgctcatnac	tgctgcattt	ccacgatcca	ccctgtnatg	gctatcctgc	180
tatacacaac	ngcatgatnn	gatatggaat	cctccacaat	ggaagtgttc	tgttatgacc	240
caccacctta	tatnccgccc	ctgtctgaaa	ctcaaaccct	ttgcctgtnt	cagancacga	300
tcngttatgt	tactgatgaa	gaaatggaat	actcccaaaa	acagtgtctn	gccgcaaata	360
ctacttccng	caaactnact	gcgtctctta	atcctaactc	ctctccatan	aanctacagt	420
tactccgtga	agccntgaag	gaaatggan	agttatagga	aactntcatc	gttataagcc	480
anaatgcntg	attaaataaa	tcgtctttng	tgataacctc	atcttcaact	ngttataacct	540
atcggtactn	canaancctt	attgaanttg	aattgtnttg	aaactgccga	aaaaaacgtt	600
cttatgtttc	ccggaccttg	ggggatcaat	aatccaatag	cntactcttc	ncgcc	655

<210> 132  
 <211> 566  
 <212> DNA  
 <213> Homo sapien



<223> n = A, T, C or G

agggtnncac	aaagcgtat	gttacttagc	tgtacgtgtc	gtcattntca	tgtggtggat	60
tcgagcatca	cagctctacg	tgtgtcagct	ctcacgtctg	caccagacgc	tgaagcaaga	120
gtacagtgca	agtctccaca	agcctcccag	ccccatcgag	aaacatctcc	aaagccaaag	180
ggcgccnnaa	aaccacngtg	tacacctgcc	ccatcccggg	agaaatgacc	agaacaagtc	240
gctgacctgc	tggtaagct	ctatccagca	ctccctggaa	tgggaaacat	ggcanccgaa	300
acactacana	cacnctcccg	tgctggatcg	acgtctctcc	tctatgcanc	tcacgtggac	360
aaacagttgc	acagggaact	ctctctgtcg	tgatgctgan	ggtctgccaa	cactacccaa	420
aaanctctcc	tgttcccggt	tataatgcga	aggcggcanc	ccnctcccg	gntctcgcg	480
tcacaagat	gntgcaontn	cccgtctatt	cttcagcac	ccanctggaa	ataagcnccn	540
ccatgncctg	gcccctgaaa	aaaaaa				566

<213> Homo sapien

<223> n = A, T, C or G

agctnnggct	nagcgtataa	aacttaagct	tgggtnaccg	agctcgggat	ccactcagtc	60
cagtngtggg	tgggnaattc	ctngnagcca	ccctnacagc	cagtaagnag	atatngtagg	120
gtaaattgtt	aagggnaagt	cagcacttac	attaaagtaa	aattgggctc	acaaaccccg	180
nacacagtna	gcattttgtt	gccaatctt	gggttgggaa	tgggtgaaca	aacattgctg	240
ggaagccaag	tngctnaaca	ttgccttggg	ttcaaggggg	natgggnaaa	gtcaccogtt	300
aaggggatgg	gcaattgcc	gtgggaaacc	caccgcttgc	ttgaaggctc	tgggacttgc	360
atccttacc	cccaaactcc	gtccaacttg	gacaaagccc	ttggccgcct	tgccctctcca	420
ggaatgtctt	acaaaaattg	ggtgggttat	tgggttactg	gttccttggt	gggcccgaa	480
ttgggaaaaa	cttgggttgt	tctcaaaacc	cgggttattg	ggttgggtca	ccttttggct	540
cccagnttca	aacgtttaca	aacggggaaa	gtnaaaaaat	ttgttcgaaa	aattgccacc	600
cattgnaaaa	gcttttggaa	nttggaaaaa	tcttccttgg	gggggacaaa	ttgtttgggg	660
gctttccaat	tgntcaaaaa	aattgttgtt	cttgttcaaa	agggatgttt	nccgttccgt	720
ggggccaac	cgttttgctt	gggttgaaca	gccaaaaaaa	tttgnaancc	ccacccaant	780
tggggaaaqc	caagcctttg	qgtttcactg	gcttcc			816

<213> Homo sapien

 $\langle 223 \rangle \text{ n} = \text{A, T, C or G}$ 

<400> 134

```
<210> 135
<211> 658
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(658)
<223> n = A,T,C or G
```

```
<210> 136
<211> 478
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(478)
<223> n = A,T,C or G
```

$\langle 210 \rangle$	137
$\langle 211 \rangle$	612

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(612)

<223> n = A,T,C or G

<400> 137

gcaggggctc	ttgcaaatta	acacaaaata	ataattaaaa	atgaaacgaa	attgaggata	60
ttcttagaaa	gggtgaagga	catgaaatac	attactatct	gggatttcaa	cctttccaaa	120
ggtcaataaa	tccccaaata	aaatgtaaat	ccaaggctac	ctgagaattc	catttctgtt	180
gcatctttgt	tcatgatgag	catatgtctt	ttcattttga	ggacttttta	aaagagaaga	240
gtgacacaca	atgcaacatg	gacaaggaat	gaaaattgct	ttagacactg	cactttgaac	300
tcctaaacct	gggaggtgcc	agggctctgac	actgtatatt	tcttcctttg	atctgattct	360
tccaaacagg	atccatgtac	tggcaaattt	ccctagtgtt	ccctggtaag	catcaaagta	420
aaccactggt	tggcctcggt	atttctacat	tggctttctc	cattgnnttt	atacataaaa	480
aaaanaaaaa	gaaagaaaac	tcactgggca	ttttacatgg	ggtttccata	ttggtcctta	540
atcattcagt	ttgaaagtaa	atcaaagagg	aatgaanagt	taaagngctt	tgaaattggg	600
gtgaaaactt	ca					612

<210> 138

<211> 478

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(478)

<223> n = A,T,C or G

<400> 138

gcaggggctc	ttgcaaatta	acacaaaata	ataattaaaa	atgaaacgaa	attgaggata	60
ttcttagaaa	gggtgaagga	catgaaatac	attactatct	gggatttcaa	cctttccaaa	120
ggtcaataaa	tccccaaata	aaatgtaaat	ccaaggctac	ctgagaattc	catttctgtt	180
gcatctttgt	tcatgatgag	catatgtctt	ttcattttga	ggacttttta	aaagagaaga	240
gtgacacaca	atgcaacatg	gacaaggaat	gaaaattgct	ttagacactg	cactttgaac	300
atacaaacct	gggaggtgcc	agggctctgac	actgtatatt	tcttcctttg	atctgattct	360
tccaaacagg	atccatgtac	tggcaaattt	ccctagtgtt	ccctggtaag	catcaaagta	420
aaccactggn	tggcctcggt	atttctacat	tggctttctc	cattgggtttt	atacataa	478

<210> 139

<211> 597

<212> DNA

<213> Homo sapien

<400> 139

gttattttggt	agtttttagag	atgaggaact	aaggaccag	ttgctcagt	tttcctagct	60
agtgaataga	gactagacac	caagtgttct	acgtgcagac	tttatactgc	tcagcctggc	120
acacaaaatg	gcaatggcat	agtccccaga	ctgtgggtccc	aactgtctct	ttcctaacag	180
ctccccaggc	accacactt	ttctgcctct	ttttcaatct	gtacccttga	ccctcctcct	240
ttttctgctt	tgtcagactc	cttaaggcac	ttcataaatt	aaccatttcc	agggatttcc	300
cctcacacat	gagttattcc	agtggacagg	gcagcctcat	gggtgcctgt	ggagggtgaa	360
gggtctgcct	ggccgtaggt	gtgatcacac	actcccgttg	taaccctgc	ctcctgtgac	420

acttgctgcc	ccacgattta	gctgctttgt	gttccgtgcc	tcctgtttgc	tggtgaactc	480
ctgagttggg	gggcgtcatt	ccctccaactg	tagttcttcc	gcgatgctga	atccaccac	540
ggtcagcacc	actcggaaat	acttcacagt	cctgtagagg	aagacaggtc	caggttt	597

&lt;210&gt; 140

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(368)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 140

tttacatcta	gactccacag	acagaaacgt	ttcattttta	ttgagttaat	tttgaaatat	60
atgaatccct	gacccattgt	tatcactagc	tgttactcta	tcaggacagt	tgctgaagtt	120
ttttgtcact	aaatttaaaa	atcaactatc	aggttgtccc	ttggatgacc	tgagatttct	180
agagacaaaa	gaaatctatt	cttcctgatt	gaagaaagag	tctgagattt	tttttaaacc	240
actgatttgg	ggatcagggt	gtagccagtg	tctcaaactc	tcccctgtcc	cttttttgtt	300
ttgctcaagg	agtgggctnt	gaggntctca	gaattggggg	ngttactggg	ttatttttga	360
ttaggggg						368

&lt;210&gt; 141

&lt;211&gt; 674

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(674)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 141

aatgtcaatc	tttgctcggg	cagtgaggat	gtcgccctgtt	gagggaaaaa	tagtagctgt	60
tgccatattc	ctttaactcc	cccccccgcc	cccccgcaat	atgtcccctg	aataaacttt	120
gtgggtagtt	tttcttcatt	cccagaactg	ttatgaggta	agttcagaaa	ttgccagctt	180
cctgatgctc	tatgctttga	acacacaaaa	taatcaaagg	tgctctttag	taggatcctt	240
tccctatcaa	aataacagta	acacccaatc	tgaggcctca	agcccactcc	ttgagcaaaa	300
caaaaaaggg	acaggggaga	gtttgagaca	ctggctacac	cctgatcccc	aatcagtggt	360
tttaaaaaaa	atctcagact	ctttcttcaa	tcaggaagaa	tagatttctt	ttgtctctag	420
aatctcagg	tcatccaagg	gacaacctga	tagttgattt	ttaaatttag	tgacaaaaaa	480
actttcagca	actgtcctga	taggagtaac	caggctagnt	ggataaccaa	atggggtnca	540
agggggaatn	tcataatatt	ttcaaaaaat	taaaccttca	attaaaaaaa	tggaataacc	600
ggttttctntg	gtcctgggtg	ggaggttcct	aagnatggta	aaaaaaggaa	atttccccac	660
ccaacnacct	tggg					674

&lt;210&gt; 142

&lt;211&gt; 669

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

<223> n = A, T, C or G

gttggaact	tantcctcaa	tgcaatagtg	ttgagatgtg	ggaccttttaa	gtgataatta	60
gatcatgagg	gatttgccctc	attcattaat	tattgctatt	atctcagggtg	agttagttat	120
cggagattga	aatcctgata	aaaagttgag	tttgttctct	ctgtctctct	ctctctctcc	180
actctagaat	tgtaaaaaac	taatctctat	tctgcataaa	ttaccagctc	tcagggtattc	240
cattatatta	gcaggaaatg	gactaagaca	ctactttata	aaattttgca	gtttccaatg	300
ttcagctttt	ccttgatcog	gcttcatcta	catttttctt	tgcttggttac	tgatggtgaa	360
attttcctgt	tgtctttcat	ttatggetta	cactatcaca	tgctctctat	taattcatgc	420
cttctatttc	cttctgttgt	ttttggaagc	atctcttttc	atgggctcat	tttagctctg	480
taagacatat	cgaaaactca	cttgattcct	cctgcatgca	tagagctctg	ctggggaagt	540
ctccttctcg	atgctacgcc	ttcccaccaa	agacaaggct	ttgcttattt	gcncattctg	600
tttaacgtct	gccaaatatg	nggtcttgac	ncataagaaa	actggtttga	nccgcaaaan	660
aaaattttg						669

<211> 501

<213> Homo sapien

agaccttatt	tggtaatctg	ctgtcttcca	gtgtctctgc	attagatacc	attactacag	60
tagcacttgg	atctctcaca	tctattccag	aaaatgtgtc	tactcatggt	tctcagattt	120
ttaatatgat	actaaaagaa	caatcattag	cagcagaaag	taaaactgta	ctacaggaat	180
tgattaatgt	actcaagact	gatcttctaa	gttcactgga	aatgatttta	tccccaaactg	240
tgggtgtctat	actgaaaatc	aatagtcaac	taaagcatat	tttcaagact	tcattgacag	300
tggccgataa	gatagaagat	caaaaaaagg	aactagatgg	ctttctcagt	atactgtgta	360
acaatctaca	tgaactacaa	gaaaatccat	ttgttccttg	gttgagtcac	aaaagcaatg	420
tggaaaccta	actgaagacc	tgaagacaat	aaagcagacc	cattcccagg	aactttgcaa	480
gttaatqaat	ctttggacag	a				501

<211> 501

<213> Homo sapien

<221> misc feature

<223> n = A, T, C or G

gatatctcag	cacctgactt	acacatctta	catactcaag	caaaactccc	agggcacatt	60
tttagttggc	cagccatcac	cccagacttc	tggaaaacaa	ctcaccactg	ggtcagtggg	120
ccaaggaaca	ctggggagtca	gcacatcttc	tgcacaagga	caacaaacgc	taaaagtcac	180
ctctggacag	aaaaccacat	tgtttacaca	ggcagcccat	ggaggacagg	catctctaata	240
gaaaatatcc	gatagcacgt	tgaagactgt	gccagccacc	tcacagctct	cgaagcctgg	300
aaccacaatg	ctgagagtag	caggaggggt	tatcacaact	gccacttccc	ctgccgtggc	360
cctctcagca	aacggtcctt	gccaacagtc	tgaaggaatg	gctnccgtgt	cttcattctac	420
ggncaagttc	tgtaacgaaa	acttctgggc	agcaacaaag	tgtgtgtgan	ccaagccacc	480
cgtggggaac	cttgcaagggn	t				501

<210> 145  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 145  
 ggaatccgag ccggtacccc cctctccgag cgcacgagc tggcccttct catgcagatg 60  
 acggccgagg agtctgcca cagcccagtg gacacaacac caaagcacc ctcccagttc 120  
 acagtgtgtc agaagggaac gcccaactct gctcaaaaa ccaaagataa agtgaacaag 180  
 agaaacgagc ttggagagac cgcctgcac cgagccgcca tccgcgggga cggccggcgc 240  
 atcaaagagc tcatcagcga gggggcagac gtcaacgtca aggacttcgc aggctggacg 300  
 gcgctgcacg aggcctgtaa cgggggctac tacgacgtcg cgaagcaact gctggctgca 360  
 ggtgcggagg tgaacacca gggcctagat gacgacagc cttttgcacg acgcttgcca 420  
 acaacgggca ctacaaggtg gtgaaactgc ttgttgcggt acnganggaa cccgnacaaa 480  
 acaacaggaa aagcgaagac c 501

<210> 146  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 146  
 ggcccgagaca cggacaggat tgacagattg atagctcttt ctcgattccg tgggtggtgg 60  
 tgcattggccg ttcttagttg gtggagcgat ttgtctggtt aattccgata acgaacgaga 120  
 ctctggcatg ctaactagtt acgcgacccc cgagcggctg gcgtccccc acttcttaga 180  
 gggacaagtg gcgttcagcc acccgagatt gagcaataac aggtctgtga tgcccttaga 240  
 tgtccggggc tgacagccg ctacactgac tggctcagcg tgtgcctacc ctacgccggc 300  
 aggcgcgggt aaccggtga accccattcg tgatggggat cggggattgc aattattccc 360  
 catgaacgan gaattcccag taagtgcggg tcataagctt attccgcact tacctgggga 420  
 gaagcctttt ggtcttccg ggacnaaaac agctttgttg ctgaacgcng gcagaccg 480  
 tcgcgccgctc cggtggttac c 501

<210> 147  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 147  
 cagcgcgcgc gcccgcccc tccagcttcc cggaccatgg ccaacctgga gcgcaccttc 60

atcgccatca	agccggacgg	cgtgcagcgc	ggcctgggtg	gcgagatcat	caagcgcttc	120
gagcagaagg	gattccgcct	cgtggccatg	aagttcctcc	gggcctctga	agaacacctg	180
aagcagcact	acattgacct	gaaagaccga	ccattcttcc	ctgggctggt	gaagtacatg	240
aactcagggc	cggttgnggc	catggtctgg	gaggggctga	acgtggtgaa	gacaggccga	300
gtgatgcttg	gggagaccaa	tccagcagat	tcaaagccag	gcaccattcg	tggggacttc	360
tgcattcagg	ttggcaggaa	catcattcat	ggcagtgatt	cagtaaaaag	tgctgaaaaa	420
gaaatcagcc	tatggtttaa	gcctgaagaa	ctggttgact	acaagtcttt	ggctcatgac	480
tgggtctatn	aataagaagg	g				501

&lt;210&gt; 148

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 148

actcttagct	tgctcggggac	ggtaaccggg	accgggtgtc	tgctcctgtc	gccttcgcct	60
cctaatccct	agccactatg	cgtgagtga	tctccatcca	cggtggccag	gctgggtgtcc	120
agattggcaa	tgccctgctg	gagctctact	gcctggaaca	cggcatccag	cccgatggcc	180
agatgccaa	tgacaagacc	attgggggag	gagatgactc	cttcaacacc	ttcttcagt	240
agacggggcg	tggcaagcac	gtgccccggg	ctgtgtttgt	agacttggaa	cccacagtca	300
ttgatgaagt	tcgcactggc	acctaccgcc	agctcttcca	ccctgagcag	ctcatcacag	360
gcaaggaaga	tgctgccaat	aactatgccc	gagggcacta	caccattggc	aaggagatca	420
ttgaccttgt	gttggaaccga	attcgcaagc	tggctgacag	tgcaccggtc	ttcagggctt	480
cttggttttn	cacagctttg	g				501

&lt;210&gt; 149

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 149

cgccccgggca	ggaatagaag	atgaacaaac	ccataacacc	atcaacatat	gtgcgctgcc	60
tcaatgttgg	actaattagg	aagctgtcag	attttattga	tcctcaagaa	ggatggaaga	120
agttagctgt	agctattaaa	aaaccatctg	gtgatgatag	atacaatcaa	gtttcacata	180
aggagatttg	aagcattctt	caaactggaa	aaagtcccac	ttcttgaata	ctgtttgact	240
gggggacacca	caaattggac	agttggtgat	cttgtggatc	ttttgatcca	aaatgaattt	300
ttgctcctgc	gagctctttg	ctcccagatg	ctgttcccaa	actgctaata	cactaccttc	360
taaagaagct	ataacagttc	agcaaaaaaca	gatgcctttc	tgtgacaaaag	acaggacatt	420
gatgacacct	gtgcanaatc	ttgaacaaag	ctatatgcc	cctgactcct	caagtccana	480
aaataaaagt	ttaaaaagta	g				501

&lt;210&gt; 150

&lt;211&gt; 501

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 150

cagcacagga	tactgatatt	ctgtcagctg	aaaagcatgc	ttgatatagt	agagcatgat	60
ctcctcaaac	ctcacttgcc	ctctgtcact	tatttgagat	tagatggcag	catacctcct	120
ggtcagaggc	attccattgt	ttcccggttt	aataatgac	catctataga	cgttctgtta	180
cttaccactc	acgttgggtg	cctgggactt	aatttgacag	gcgctgacac	agtagtattt	240
gtggagcatg	actggaantc	tatgcgagat	ctacaagcca	tggaaccggg	ccatcgcat	300
gggcagaaac	gtgtgggtta	cgtatccgat	tgataaccag	aggaacattg	gaagaaaaaa	360
taatgggggt	gcagaaaatt	caagatgaac	catagcgaat	ctgttattag	ccaagagaat	420
tcttagtttg	canacatggg	ggactgatca	gctttcttga	atctgtttac	tcttgataa	480
gggatggcaa	aagcagaaaa	a				501

<210> 151

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 151

atggaggggt	gtgtgtctaa	cctaattggc	tgcaacctgg	cctacagccg	gaagctggaa	60
gagttgaagg	agagtattct	ggccgataaa	tncctgnnta	ctacaactga	ccaggacagc	120
agaactgcat	tgactgggac	atgctcagct	ggacatacag	aaattgttga	atttttgttg	180
caacttgag	tgccagtga	tgataaaagac	gatgcagggt	ggctcctct	tcatattgcg	240
gcttctgctg	gccgggatga	gattgtaaaa	gccttcttgg	gaaaagggtg	tcaagtgaat	300
gctgtcaatc	aaaatggctg	tactccctta	cattatgcag	cttcgaaaaa	caggcatgag	360
atcgctgtca	tgttactgga	aggcggggct	aatccagatg	ctaaggacca	ttatgaggct	420
acagcaatgc	accgggcagc	agccaagggt	aacttgaaga	tgattcatat	ccttctgtac	480
tacaaagcat	ccacaaacat	c				501

<210> 152

<211> 501

<212> DNA

<213> Homo sapien

<400> 152

gcccgcgcaa	gccgcgccag	aactgtactc	tccgagaggt	cgttttcccg	tccccgagag	60
caagtttatt	tacaaatgtt	ggagtaataa	agaaggcaga	acaaaatgag	ctgggctttg	120
gaagaatgga	aagaaggact	gcctacaaga	gctcttcaga	aaattcaaga	gcttgaagga	180
cagcttgaca	aactgaagaa	ggaaaagcag	caaaggcagt	ttcagcttga	cagtctcgag	240
gctgcgctgc	agaagcaaaa	acagaagggt	gaaaatgaaa	aaaccgagg	tacaaacctg	300
aaaaggggaga	atcaaagatt	gatggaaata	tgtgaaagtc	tgagagaaac	taagcagaag	360
atttctcatg	aacttcaagt	caaggagtca	caagtgaatt	tccaggaagg	acaactgaat	420
tcaggcaaaa	aacaaataga	aaaactggaa	caggaactta	aaagtgtaaa	tctgacttga	480
aagaagcaac	aactggcatc	t				501



<210> 153  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 153  
 agagagagag agagagagag gagcgagaga gtgtgagcga gaaagaataa aaggaaagaa 60  
 gatttttctct atgtatataa agatggccac gtttagcaaac ggacaggctg acaacgcaag 120  
 cctcagtacc aacgggctcg gcagcagccc gggcagtgcc gggcacatga acgattaag 180  
 ccacagcccg gggaacccgt cgaccattcc catgaaggac cacgatgcca tcaagctgtt 240  
 cattgggcag atcccccgca cctggatgag aaggacctca agcccctctt cgaggagttt 300  
 ggcaaaatct acgagcttac ggttctgaag gacaggttca caggcatgca caaaggctgc 360  
 gccttcctca cctactgcga gcgtgagtcg gcgctgaagg cccagagcgc gctgcacgag 420  
 cagaagactc tgcccgggat gaacccggcc cgatccnagg tgaagccttg cggacagcga 480  
 gaaccgagga gatagaaact c 501

<210> 154  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 154  
 ttccttcctg tgtgaggccg gctgagggca ctgtctcttg ctgtttctgc ccctgggtta 60  
 acattcaaga tggtagatgc tgaagccttt tctcgtcctt tgagtcggaa tgaagtgtt 120  
 ggtttaattt tccgtttgac aatatttggg gcagtgacat actttactat caaatggatg 180  
 gtagatgcaa ttgatccaac cagaaagcaa aaagtagaag ctacagaaaca ggcagaaaaa 240  
 ctaatgaagc aaattgggag tgaaaaatgt gaagctctca gaatatgaaa tgagtattgc 300  
 tgctcatctt gtagaccctc ttaatatgca tgttacttgg agtgatatag caggtttaga 360  
 tgatgtcatt acggatctga aagacacagt catcttacct atcaaaaaga aacatttgtt 420  
 tgagaattcc aggccttctgc agcctccaaa aggtgntctt ctctatgggc ctccagctgt 480  
 ggtaaaacgt tgattgcca g 501

<210> 155  
 <211> 601  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(601)  
 <223> n = A,T,C or G

<400> 155

```

aggaggagga acagcaggag gaggaactca aagtaactgct ggccctggag ggatatctca    60
gcacctgact tacacatctt acatcctcaa gcaaactccc cagggcacat ttttagttgg    120
ccagccatca cccagactt ctggaaaaca actcaccact gggtcagtgg tccaaggaac    180
actgggagtc agcacatctt ctgcacaagg acaacaaacg ctaaaagtca tctctggaca    240
gaaaaccaca ttgtttacac aggcagccca tggaggacag gcattctctaa tgaaaatatc    300
cgatagcacc ttgaagactg tgccagccac ctacagctc tcgaagcctg gaaccacaat    360
gctgagagta gcaggagggg ttatcacaac tgccacttcc cctgccgtgg ccctctcagc    420
aaacggtcct gcacaacagt ctgaaggaat ggctcccgtg tcttcatcta cggtcagttc    480
tgtaacgaaa acttctgggc agcagcaagt gtgtgtgagc caggccaccg tgggaacctg    540
caagngtgcc accccccctg cgtcagcgcc acgtncctcg tgctacacca aaccccatct    600
c

```

<210> 156

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 156

```

caagaaagga gaaagagagc tcaaaatcgg agacagagta ttggttggtg gcactaaggc    60
tggtgtagtc cggtttcttg gggagaccga ctttgccaag ggggagtggg gtggcgtgga    120
gtagatgag ccacttgga agaagatgag cgtgtgtgct ggaacaagg attttcagtg    180
tcaacccaaa tatggcttgt tcgctcctgt ccacaaagtt accaagattg gcttcccttc    240
cactacacca gccaaagcca aggcacaacgc agtgaggcga gtgatggcga ccacgtccgc    300
cagcctgaag cgcagccctt ctgcctcttc cctcagctcc atgagctcag tggcctcctc    360
tgtgagcagc angcccagtc ggacaggact attgactgaa acctcctccc gttacgccag    420
gaagatctcc ggtaccactg cctccanga ggcccttgaa ggaaaaacan cagcacattg    480
agcancttgc tggcnggaac c

```

<210> 157

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 157

```

caccctcttc gtcgcttcgg ccagtgtgtc gggctggggc ctgacaagcc acctgaggag    60
aggctcggag ccggggcccg accccggcga ttgcgcgccg cttctctcta gtctcacgag    120
gggtttcccg cctcgcaccc ccacctctgg acttgccctt ccttctcttc tccgcgtgtg    180
gagggagcca gcgcttangc cggagcgcgc ctggggggcg cccgccgtga agacatcgcg    240
gggaccgatt caccatgnag ggcgcggcg gngcgaacga caagaaaaag ataagttctg    300
aacgtcgaaa agaaaagtct cgagatgcag ccanatctcg gcgaagtaaa gaatctgaag    360
ttttttatga gcttgctcat cagttgccac ttccacataa tgtgagttcg catcttgata    420
angcctcttg tgatgaggct taccatcagc tatttgctg tgaggaaact tctggatgct    480
ggtgatttgg atattgaaga t

```

<210> 158  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

```
<400> 158
acggggtcac ccacacggtg cccatctacg agggctacgc cctccccccac gccatcctgc      60
gtctggacct ggctggccgg gacctgaccg actacctcat gaagatcctc actgagcgag      120
gctacagctt caccaccacg gccgagcggg aaatcgtgcg cgacatcaag gagaagctgt      180
gctacgtcgc cctggacttc gagcaggaga tggccaccgc cgcatacctc tcttctctgg      240
agaagagcta cgagctgccc gatggccagg tcatcaccat tggcaatgag cggttccggt      300
gtccggaggc gctgttccag ccttccttcc tgggtatgga atcttgcggn attcacgana      360
ccaccttcaa ctocatcatg aagtgtgacg tggacatccg caaagacctg tacgccaaca      420
ccgtgctgtc gggcggnacc accatgtacc cgggcattgc cgacaggatg caaaaaggag      480
atcacccgcc cttggcgccc a                                     501
```

<210> 159  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

```
<400> 159
cgagcgggac tggctgggtc ggctgggctg ctggtgcgag gagccgcggg gctgtgctcg      60
gcggccaaag ggacagcgcg tgggtggccg aggatgctgc ggggcggtag ctccggcgcc      120
cctagctggg gactgctgcg ccgtgcctca cacagcccga ggcgggctcg gcgcacagtc      180
gctgctccgc gcgcgcgccc ggcggcgctc caggtgctga cagcgcgaga gagcgcggcc      240
ctcaggagca aggcgaatgt atgacaacat gtccacaatg gtgtacataa aggaagacaa      300
gttgagagaag cttacacagg atgaaattat ttctaagaca aagcaagtaa ttcaggggct      360
ggaagctttg aagaatgagc acaattccat tttaaaagt ttgctggaga cactgaagtg      420
tttgaagaaa gatgatgaaa gtaatttggg ggaggagaaa tcaaacatga tccggaagtc      480
actggagatg ttggagctcg g                                     501
```

<210> 160  
 <211> 487  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(487)  
 <223> n = A,T,C or G

```
<400> 160
aagatctcag tctgactctt ttggaacaag tcaaactgcc catgatgttg ctgatcagcc      60
aaggcctgga tcagagggga gcttctgtgc atottcaaac tctccaatgc actcccaagg      120
ccagcagttc tctggtgtct cccaacttcc tggacctgtg ccacttcagg agtaactgat      180
acacagaata ctgtaaatat ggcccaagca gatacagaga aattgagaca gcggcagaag      240
ttacgtgaaa tcattctcca gcagcaacag cagaagaaga ttgcaggtcg acaggagaag      300
gggtcacagg actcacccgc agtgccttca tccanggcct ctttaacact ggcaaccaag      360
```

```

agaatggtta acccagggett ttaaccaana acccccacct tccttttcct gggggaacat 420
ttaggtcttc ctggttggcc ccttcctttt anggaacctt anaatttgct tggtttttcc 480
ccnaaaa 487

```

```

<210> 161
<211> 501
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 161
ggttcccggc ccagtcccgt cctgcagcag tctgcctcct ctttcaacat gacagatgcc 60
gctgtgtcct tcgccaagga cttcctggca ggtggagtgg ccgcagccat ctccaagacg 120
gcggtagcgc ccatcgagcg ggtcaagctg ctgctgcagg tgcagcatgc cagcaagcag 180
atcactgcag ataagcaata caaaggcatt atagactgcg tggtcctgat tccaaggag 240
cagggagttc tgtcctttctg gcgcggtaac ctggccaatg tcatcagata cttccccacc 300
caggctctta acttcgcctt caaagataaa tacaagcaga tcttcctggg tgggtgtggac 360
aagagaaccc agttttggcg ctactttgca ggaatctgg catcgggtgg tgccgcangg 420
gccacatccc tgtgttttgt gtaccctctt gattttgccc gtaccctctt ancantgat 480
gtggggtaaa agctggagct g 501

```

```

<210> 162
<211> 501
<212> DNA
<213> Homo sapien

```

```

<400> 162
gaaaaagaaa aagaactaca acggcagaaa gaaaaggaaa aagaactaca aaagatgaaa 60
gaacaagaaa aggaatgtga gctggagaag gaaagggaaa aattagagga gaaaattgaa 120
cccagagAAC ctaatttaga gcccatggta gaaaaacaag aaagtgaaaa cagctgtaat 180
aaagaggagg aaccCGtttt cactagacaa gacagcaatc gcagtgaaaa ggaagccaca 240
ccagtgggtg atgaaacaga accagaatca ggggtctcaac ctcgGCCggc tgtattatct 300
ggctatttca aacagtttca gaagtcttta cctccacgat tccagcggca gcaggaacag 360
atgaaacagc agcagtggca gcagcagcaa cagcaagggt tacttccaga ctgttccttc 420
caaccgtcca gtagtactgt cctcctctcc cacacagacc tcttttcagc ctatgcagcc 480
tctcctcagc atttggttc t 501

```

```

<210> 163
<211> 501
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 163
gagctcgacc agttgcctga cgagagctct tcagcaaaag cccttgctcag tttaaaagaa 60
ggaagcttat ctaacacgtg gaatgaaaag tacagttctt tacagaaaac acctgtttgg 120

```

```

aaaggcagga atacaagctc tgctgtggaa atgccttttc agaaattcaa aacgaagtgc 180
acttttttct gatgaagatg ataggcaaat aaatacaagg tcacctaaaa gaaaccagag 240
ggttgcaatg gttccacaga aatttacagc aacaatgtca acaccagata agaaagcttc 300
acagaagatt ggttttcgat tacgtaatct gctcaagctt cctaaagcac ataatgggtg 360
tatatacgag tggttctatt caaatataga taaaccactt tttgaagggtg ataatgactt 420
ttgtgtatgt ctaaaggaat cttttctaata ttgaaaacaa gaaagttaac aagagtagaa 480
tggggaaaaa ttcngcggct t 501

```

<210> 164

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 164

```

cgggtgcgcg cccacgaccg ccagactcga gcagtctctg gaacacgctg cggggctccc 60
gggcctgagc caggtctgtt ctccaacgag gtgttcgcg cgcccgttc agccatgtcg 120
tccggcatcc atgtagcgct ggtgactgga ggcaacaagg ggcacggct tggccatcgt 180
gcgcgacctg tgccggctgt tctcggggga cgtggtgctc acggcgcggg acgtgacgcg 240
gggccaggcg gccgtacagc agctgcaggc ggagggcctg agcccgcgct tccaccagct 300
ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac ttcctgcgca aggagtacgg 360
gggcctggac gtgctggtca acaacgcggg catgcgcttc aaggttgctg atcccacacc 420
ctttcatatt caagctgaag tgacgatgaa aacaaatttc tttggtaccc ganatgtgtg 480
cacagaatta ctccctctaa t 501

```

<210> 165

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 165

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ccggtgaagg accgcgaggc cttccagagg ctcaacttcc tgtaccaggt gagtctgcga 60
caagggcccc acggggacgg tgctcggcgt cccagagtga ctgtccccc cccgcaggcc 120
gccatttgtg tccttgccca ggaccccgag aaccangcgc tggcgagggt ttactgctac 180
actgagagga ccattgcgaa gcggctcgtc ttgcgggcgg atccctcggt gaagaggact 240
ctctgtcgag gctgctcttc cctcctcgtc ccgggcctca cctgcaccca ccgccagaga 300
cgctgcaggg gacagcgctg gaccgtacag acctgcctaa catgccagcg cagccaacgc 360
tnnctcaatg atccnngca ttactnttgg ggagacnngn ctgaggccca actcgggagc 420
caagcagatt ccaaaccact acaacccttg ccaaacacag cccactccat ttcagaccgc 480
cttctgagg agaaaaatgca g 501

```

<210> 166

<211> 412

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(412)  
 <223> n = A,T,C or G

<400> 166  
 atgtccaagc cgggtggacca cgtcaagcgg cccatgaacg ccttcatggt gtggtcgcgg 60  
 gctcagcggc gcaagatggc ccaggagaac cccaagatgc acaactcggg gatcagcaag 120  
 cgcttgggcg ccgagtggaa actgctcaca gagtcggaga agcggccggt catcgacgag 180  
 gccaaagcgt tacgcgccat gcacatgaag gagcaccgcc actacaagta ccggccgcgg 240  
 cgcaagccca agacgctgct caagaaggac aagttcgctt tcccggtgcc ctacggcctg 300  
 ggcggcggtg cggacgccga gcacctgctg ctcaaggcgg gcgcggggct gcacgcgggg 360  
 gcgggcggcg gncgtggtgcc tgagtcgctg ctgcgcaatc ccgagaaggc gg 412

<210> 167  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 167  
 aaatgcaagt tgatctggag aaagaattac aatctgcttt taatgagata acaaaactca 60  
 cctcccttat agatggcaaa gttccaaaag atttgctctg taatttggaa ttggaaggaa 120  
 agattactga tcttcagaaa gaactaaata aagaaagttg aagaaaaatg aagctttgcg 180  
 ggaagaagtc attttgcttt cagaattgaa atctttacct tctgaagtag aaaggctgag 240  
 gaaagagata caagacaaat ctgaagagct ccatataata acatcagaaa aagataaatt 300  
 gttttctgaa gtagttcata aggagagtag agttcaagggt ttacttgaag aaattgggaa 360  
 aacaaaagat gacctagcaa ctacacagtc gaattataaa agcactgata aagaattcca 420  
 aaatttcaaa acccttcata tggactttga gcaaaagtat aagatggtcc ttgaggagaa 480  
 tgagagaatg aatcaggaaa t 501

<210> 168  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 168  
 ggggccgcgc gagctcgcgc caggctcctg ggaaaggacg gggagtgtta ccggggagca 60  
 gctgctccat tgtgcctcga ggccccgacg gggctaggcc gacggcctcc ctcccttcac 120  
 ctttctctc ctggcggggt tcggcgccgg gcgagtgcac tgcggccacg cctgaaaggc 180  
 gactctcctg attcaagatg accaacgaag aacctcttcc caagaagggt cgattgagtg 240  
 aaacagactt caaagttatg gcaagagatg agttaattct aagatggaaa caatatgaag 300  
 catatgtaca agctttggag ggcaagtaca cagatcttaa ctctaagat gtaactggcc 360  
 taagagagtc tgaagaaaaa ctaaagcaac aacagcagga gtctgcacgc agggaaaaaca 420  
 tccttgtaat gcgactagca accaaggaac aagagatgca agagtgtact acttaaatcc 480  
 agtacctcaa gcaagtccan c 501

<210> 169  
 <211> 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 169

gctgtgcggc	ggtccccgcg	ccggcgatgt	tcccgggcac	tccctgagta	gcggcagctt	60
atcccccgcc	cgctagcccg	ccctgggtccc	cggtcgcgtc	gctggctggc	gcggccccgg	120
ccccgctctg	cgtcggcccc	gccgcggtgg	aggcgcgcga	gggggacgcg	gccggggatg	180
agcggattgc	gggtgaactc	gccgcccggg	ggccccgcga	agccgtgagc	cgctgctttt	240
ctccgagtcg	ccgccctgcc	cttggtattg	agatcatgtc	catccacatc	gtggcgctgg	300
ggaacgaggg	ggacacattc	caccaggaca	accggccgtc	ggggcttatc	cgcacttacc	360
tggggagaag	ccctctggtc	tccggggacg	agagcagctt	gttgctgaac	gcggccagca	420
cggtcgcgcg	tccggtgttc	accgagtatc	aggccagtgc	gtttgggaat	gtcaaagctg	480
gtgtgccacg	actgtcccgt	c				501

&lt;210&gt; 170

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 170

gcatcctctt	gccgttcccg	gtgtttgggc	cttgccctgtg	acggtgggaa	aagaaaatgg	60
ccttgctgtg	ctacaaccgg	ggctgcgggtc	agcgtctcga	tcctgagacc	aattccgacg	120
atgcttgcac	ataccacca	ggtgttcogg	tctttcacga	tgcattaaag	ggttggtctt	180
gctgtaagag	aagaacaact	gattttttctg	attttcttaag	cattgtaggc	tgtacaaaag	240
gtagacataa	tagtgagaag	ccacctgagc	cagtcaaacc	tgaagtcaag	actactgaga	300
agaaggagct	atgtgaatta	aaaccccaat	ttcangaaca	catcattcaa	gcccttaagc	360
cagtagaagc	aataaaaaaga	ccaagcccag	atgaaccaat	gacaaatttg	gaattaaaaa	420
tatctgcctc	cctaaaacaa	gcacttgata	aacttaaact	gtcatcaggg	aatgaagaaa	480
atnagaaaga	agaagacnat	g				501

&lt;210&gt; 171

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 171

agcgacctat	cttgaactcc	acagccttga	tgactttctac	ataggaaagt	attttggagg	60
agtgttggag	tatttttatga	ttcaagcctt	aaatcagaag	acaagtgaag	aaatgaagaa	120
aagaaaaatg	agcaactcct	ttcatggaat	tagaccacct	caacttgaac	aaccagaaaa	180
aatgcctgtc	ttaaaggctg	aagcgtcaca	ttataactct	gacttaaata	acttgctgtt	240
ctgctgccag	tgtgtggacg	tggtatttta	caaccccaat	ttaaagaaag	ttgtagaggc	300
ccacaagatc	gttctctgcg	ctgtaagcca	tgttttctacg	ctgcttttca	atgtgaagag	360
tcccactgac	attcaggatt	ccagtatcat	cogaactacc	caggatcttt	ttgctataaa	420
cagagatact	gcatttccag	gtgctagcca	tgaatcttca	ggcaaccac	cattacgagt	480
cattgttaaa	gacgccctct	tctgttcttg	tttatcagac	atccttcgct	tcattttattc	540
aggtgctttt	cagtgggaag	aattggaaga	agatatcagg	aagaagttga	aagattctgg	600
g						601

&lt;210&gt; 172

<211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 172  
 gaccgttttaaaaactgggta tccagctcac atagaagaca ttgactacga ggaaggaaaa 60  
 gtactcatcc atttcaagcg ttggaaccat cgttatgatg agtggttctg ctgggacagt 120  
 ccttattttac gcccttttaga gaaaatacag ctgaggaaag agggcttgca tgaagaggat 180  
 ggatcttctg aatttcaaataaatgagcag gtccttgctt gctggtctga ttgtcgtttt 240  
 taccggcca aagtcactgc tgtaacaag gatggtactt aactgtgaa attttatgat 300  
 ggagtagttc agactgtcaa acatattcat gtcaaagctt tttccaaaga tcagaatatt 360  
 gtgggtaatg ctaggcctaa agaaacagat cacaaaagtc tttcatcatc tcctgataaa 420  
 cgagagaagt ttaaagaaca gagaaaagca acagtgaatg tgaagaaaga caaagaagat 480  
 aaacccttaa agacagaaaa g 501

<210> 173  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 173  
 gcgacctatc ttgaactcca cagccttgat gacttctaca taggaaagta ttttggagga 60  
 gtgttgaggat attttatgat tcaagcctta aatcagaaga caagtgaaaa aatgaagaaa 120  
 agaaaaatga gcaactcctt tcatggaatt agaccacctc aacttgaaca accagaaaaa 180  
 atgcctgtct taaaggctga agcgtcacat tataactctg acttaaataa cttgctgttc 240  
 tgctgccagt gtgtggacgt ggtattttac aaccccaatt taaagaaagt tgtagaggcc 300  
 cacaagatcg ttctctgcgc tgtaagccat gttttcatgc tgcttttcaa tgtgaagagt 360  
 cccactgaca ttcaggattc cagtatcacc cgaactaccc aggatctttt tgctataaac 420  
 agagatactg catttccagg tgctagccat gaatcttcag gcaaccacc attacgagtc 480  
 attgttaaag acgccctctt c 501

<210> 174  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 174  
 ccccgaggag cgggccgtcg ggcgcagccg cgaagatgcc gttggaactg acgcagagcc 60  
 gagtgcagaa gatctgggtg cccgtggacc acaggccctc gttgcccaga tcctgtgggc 120  
 caaagctgac caactcccc accgtcatcg tcatggtggg cctccccgcc cggggcaaga 180  
 cctacatctc caagaagctg actcgctacc tcaactggat tggcgtcccc acaaaagtgt 240  
 tcaacgtcgg ggagtatcgc cgggaggctg tgaagcagta cagctcctac aacttcttcc 300  
 gccccgacaa tgaggaagcc atgaaagtcc ggaagcaatg tgccttagct gccttgagag 360  
 atgtcaaaaag ctacctggcg aaagaagggg gacaaattgc ggttttcgat gccaccaata 420  
 ctactagaga gaggagacac atgatccttc attttgccaa agaaaatgac ttttaaggcgt 480  
 ttttcatcga gtcggtgtgc g 501

<210> 175  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature



<222> (1)...(501)

<223> n = A,T,C or G

<400> 175

ccaacatgac	cgaacgaaga	agggacgagc	tctctgaaga	gatcaacaac	ttaagagaga	60
aggtcatgaa	gcagtcggag	gagaacaaca	acctgcagag	ccaggtgcag	aagctcacag	120
aggagaacac	cacccttcga	gagcaagtgg	aaccaccccc	tgaggatgag	gatgatgaca	180
tcgagctccg	cgggtgctgca	gcagctgctg	ccccaccccc	tccaatagag	gaagagtgcc	240
cagaagacct	cccagagaag	ttcgatggca	acccagacat	gctggctcct	ttcatggccc	300
agtgccagat	cttcatggaa	aagagcacca	gggatttctc	agttgatcgt	gtccgtgtct	360
gcttcgtgac	aagcatgatg	accggccgtg	ctgccgttgg	gcctcagcaa	agctggagcg	420
ctccactacc	tgatgcacaa	ctaccacatt	tcgatgatga	aatgaagcat	gtctttgaag	480
accctcanag	gcgagaggtt	g				501

<210> 176

<211> 378

<212> DNA

<213> Homo sapien

<400> 176

ggcgggaagag	gtgattttatt	atatggttgt	tacactcggc	cacaaataaa	cacagaaata	60
gtccagaatg	tcacaggtcc	agggcagagg	accaacatgg	gcattttgtt	tatgagcaag	120
gtgggtctca	gaggtgatcg	gcgatcagag	ggcgatgaag	ttctagatcc	attgagacaa	180
gctctagaca	gtagcatgca	gtcccacaa	ttgtaccagc	atccccagcg	tctggcattc	240
catgtttctg	ctcctgtggc	ctccacgggtg	caacaagcta	gcggtttact	tggacctctg	300
cctcatcttt	cttcttttgc	gcttcagcct	gcgcattcgc	ttcttctctc	acttggctct	360
catggcgcag	aggtttcc					378

<210> 177

<211> 501

<212> DNA

<213> Homo sapien

<400> 177

ggcagggagc	tggacctgga	ggcgcgcgcg	cgacagcagc	agccatggag	gacgagatgc	60
ccaagactct	atacgtcggg	aacctttcca	gagatgtgac	agaagctcta	attctgcaac	120
tcttttagcca	gattggacct	tgtaaaaact	gcaaatgat	tatggatata	gctggaaatg	180
atccctattg	ttttgtggag	tttcatgagc	atcgtcatgc	agctgcagca	ttagctgcta	240
tgaatggacg	gaagataatg	ggtaagggaag	tcaaagtga	ttgggcaaca	acccctagca	300
gtcaaaaagaa	agatacaagc	aatcattttcc	atgtctttgt	tggtgatctc	agcccagaaa	360
ttacaactga	agatataaaa	gctgcttttg	caccatttgg	aagaatatca	gatgcccgag	420
tggtaaaaga	catggcaaca	ggaaagtcta	agggatatgg	ctttgtctcc	tttttcaaca	480
aatgggatgc	tgaaaacgcc	a				501

<210> 178

<211> 501

<212> DNA

<213> Homo sapien

<400> 178

agccccgggc	caggccgcgg	ccggggcagg	agcgcagggg	ctttgttatg	cacctaaagc	60
catattggaa	gctccagaag	aaagagcacc	ccccggaagt	cagcagggaa	acgcagagaa	120
ctcctatgaa	ccaccaaag	gctgtaaatg	atgaaacatg	caaagctagc	cacataacat	180
caagtgtctt	tccttcagcc	tctctcggtg	aagcatcatc	tcgaaagcca	tttgggatcc	240

tttctccaaa	tgttctgtgc	agtatgagtg	ggaagagtcc	tgtagagagc	agcttgaatg	300
ttaaaaccaa	aaagaatgca	ccatctgcaa	cgatccacca	gggcgaagaa	gaaggaccac	360
ttgatatctg	ggctgtttgt	aaacctggaa	ataccaagga	aaaaattgca	ttctttgcat	420
cccaccagtg	tagtaacagg	ataggatcta	tgaaaataaa	aagttcctgg	gatattgatg	480
ggagagctac	taagagaagg	a				501

&lt;210&gt; 179

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 179

cgggactagg	agcgcggcgg	ggcgggcggc	agagctgtcc	ggctgcgcgg	tggcccgggg	60
ggcccgggcg	gcagggcaag	cagcgcggcc	tcggcctatg	cgaccggtgg	cgccggcgcg	120
gcttctgcct	ggagaggatt	caagatgacc	aacgaagaac	ctcttcccaa	gaaggttcga	180
ttgagtgaaa	cagacttcaa	agttatggca	agagatgagt	taattctaag	atggaaacaa	240
tatgaagcat	atgtacaagc	tttgaggggc	aagtacacag	atcttaactc	taatgatgta	300
actggcctaa	gagagtctga	agaaaaacta	aagcaacaac	agcaggagtc	tgcacgcagg	360
gaaaacatcc	ttgtaatgcg	actagcaacc	aaggaacaag	agatgcaaga	gtgtactact	420
caaatccagt	acctcaagca	agtccagcag	cccgagcggt	gccaaactgag	atcaacaatg	480
gtagaccag	cgatcaactt	t				501

&lt;210&gt; 180

&lt;211&gt; 571

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(571)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 180

gagcgtaccg	ggttttctcc	atgctgtttc	ttaactctct	cttttgcacc	cctcccattt	60
ccctcgtttt	tctttgaaaa	tttctccccc	ctccagttcg	ctgtccggcc	ctcacatgtg	120
tganaggggc	agtgtgccgt	taatggccgt	gcccggcacc	gggccgctct	ggtagtgctg	180
ggacatgtga	agtctgctgg	ggcgggcggg	ttccggcacc	tcggcgccgg	ggagatacat	240
gctgatcatg	tcccggaggt	ccccggcctg	gcagggcgcc	ctggagtggg	aggaagaggt	300
aaccacaggg	gggctggagc	tggcctcgga	cttgaccacc	gaacccatgg	agccaanagc	360
catgccaggg	gtgccctgct	gcgagtagga	catgctgtag	gtgggcgagc	cgttcatgta	420
ggtctgcgag	ctggatcatg	agttgtactg	cagggcgctc	acgtcgtaac	ggtgcatggg	480
ctgcatctgc	gctgcgccgt	gcgcattgag	gcccgggtgc	tgngggtagc	ccaactggtc	540
ctgcatcatg	ctgtactgcc	gntgctccac	c			571

&lt;210&gt; 181

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 181

tgagaccgcc	aagatggtgg	tgggcgcggt	ccctatggcg	aagctgctat	acttgggcat	60
ccggcaggtc	agcaagccgc	ttgccaaacc	tattaaggag	gccgcccgcc	gaagcgagtt	120
cttcaagacc	tatatctgcc	tcccgcgggc	tcaactgtat	caactgggtg	agatgcggac	180
caagatgcgc	atcatgggct	tccggggcac	ggtcatcaag	ccgctgaacg	aggaggcggc	240

agccgagctg	ggcgagagc	tgctgggcca	agccaccatc	ttcatcgtgg	gcgggggctg	300
cctagtgtctg	gagtactggc	gccaccaggc	gcagcagcgc	cacaaggagg	aggagcagcg	360
tgctgcctgg	aacgcgtgc	gggacgaggt	gggccacctg	gcgctggcgc	tggaagcgct	420
gcaggcgcag	gtgcaggcgg	cgccgccaca	gggcgccttg	gaggaactgc	gcacagaact	480
gcaagaggtg	cgcgccact	c				501

&lt;210&gt; 182

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 182

ccccagcaga	catgtttgcc	aaggcctttc	gggtcaagtc	caacacggcc	atcaaggggt	60
cggacaggag	aaagcttcga	gctgatgtga	caactgcttt	ccccaccctt	ggaactgac	120
aagtctctga	gttagtacct	ggaaaggagg	agctcaacat	tgtgaagttg	tatgctcaca	180
aaggggatgc	agtgactgtg	tacgtgagtg	gtggtaacct	catcctcttt	gaactggaga	240
aaaatctgta	tccaacagtg	tacacgctgt	ggtcctatcc	tgatcttctg	ccaaccttta	300
caacatggcc	tctgggtgctc	gagaaaactgg	tagggggagc	agatttgatg	ctgcctggac	360
tggtgatgcc	ccctgctggg	ctgcctcagg	tacagaaggg	cgacctctgt	gccatttctt	420
tggtggggaa	cagagcccc	gtagccattg	gagttgcagc	catgtccaca	gctgagatgc	480
tcacgtcagg	cctgaaggga	a				501

&lt;210&gt; 183

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 183

atctgctcac	tttagcactc	tggcaattaa	acagaacccc	cttctggcag	aagcttattc	60
gaatttgggg	aatgtgtaca	aggaaagagg	gcagttgcag	gaggcaattg	agcattatcg	120
acatgcattg	cgtctcaaac	ctgatttcat	cgatggttat	attaacctgg	cagccgcctt	180
ggtagcagcg	ggtgacatgg	aaggggcagt	acaagcttac	gtctctgctc	ttcagtacaa	240
tcttgatttg	tactgtgttc	gcagtgacct	ggggaacctg	ctcaaagccc	tgggtcgctt	300
ggaagaagcc	aaggcatgtt	atttgaaagc	aattgagacg	caaccgaact	ttgcagtagc	360
ttggagtaat	cttggtgtgt	ttttcaatgc	acaaggggaa	atttggcttg	caattcatca	420
ctttgaaaag	ctgtcaccc	tgacccaaac	tttctggatg	cttatatcaa	tttaggaaat	480
gtcttgaaag	agcacgcatt	t				501

&lt;210&gt; 184

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 184

agttctccca	ggagaaagcc	atgttcagtt	cgagcgccaa	gatcgtgaag	cccaatggcg	60
agaagccgga	cgagttcgag	tccggcatct	cccaggctct	tctggagctg	gagatgaact	120
cggacctcaa	ggctcagctc	agggagctga	atattacggc	agctaaggaa	attgaagtgt	180
gtggtggctg	gaaagctatc	ataatctttg	ttcccgttcc	tcaactgaaa	tctttccaga	240
aaatccaagt	cggctagta	cgcgaaattg	agaaaaagtt	cagtgggaag	catgtcgtct	300
ttatcgctca	gaggagaatt	ctgcctaagc	caactcgaaa	aagccgtaca	aaaaataagc	360
aaaagcgtcc	caggagccgt	actctgacag	ctgtgcacga	tgccatcctt	gaggacttgg	420
tcttcccaag	cgaaattgtg	ggcaagagaa	tccgcgtcaa	actagatggc	agccggctca	480
taaaggttca	tttgacaaa	g				501

<210> 185  
 <211> 460  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(460)  
 <223> n = A,T,C or G

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<400> 185
gcacaaaatg gcggcggcgg cggcggcggc tgggtgctgca gggtcggcag ctcccgcggc      60
agcggccggc gccccgggat ctggggggcg accctcaggg tcgcaggggg tgctgatcgg      120
ggacaggctg tactccgggg tgctcatcac cttggagaac tgctcctgc ctgacgacaa      180
gtcccgtttc acgccgtcca tgtcgagcgg cctcgacacc gacacagaga cgcacctccg      240
cgtggtgggc tgcgagctca tccaggcggc cggatcctg ctccgcctgc cgcagggtgg      300
catggctacc gggcagggtgt tgttccagcg gttcttttat accaagtcct tcgtgaagca      360
ctccatggag catgtgtcaa tggcctgtgt ccacctggct tccaagatag aagangcccc      420
aagaccatac gggacgtcat caatgtgttt caccgccttc      460
```

<210> 186  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(401)  
 <223> n = A,T,C or G

```
<400> 186
cgtgttttgg gccggttctg gagtggctgg cggcgggggc tgggtgtccg cccagtgtccc      60
gaggacgcag gctttggcac cgaagcccgg catcagaggc aaccccgcg ctccgtgccaa      120
cggtcggggc ccctcgggga ccagcccttc gcggggctgc tgccaaaaaa cctcagtccg      180
gaggagctgg ttgatgcgct gcgggcagcc gtggtggacc ggaaaggacc tctagtgcag      240
ttgaacaagc cacagggtct accagtgtga ggaaccag gagagctgac gttgtttctca      300
gtgctgccag agctgagcca gtccctangg ctcaggagagc aggagcttca ggttgtccga      360
ncatctggga agtaagtgg angggtgaca ggaagctang a      401
```

<210> 187  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

```
<400> 187
gcatccgccc tgtctgggag gtggggggcg cgctctgnc cagccgccac gtctgggaag      60
tggggagccc cactgcccg ctgccacccc gtctgggagg tgtaccaaac agctcattga      120
gaacgggcca tgatgacgat ggcggttttg tgaatagaa aagggggaaa tgtggggaaa      180
agaaagagag atcagattgt tactgtgtct gtgtagaaag aagtagacat aggagactcc      240
```

```
<210> 188
<211> 376
<212> DNA
<213> Homo sapien
```

```
<210> 189
<211> 501
<212> DNA
<213> Homo sapien
```

```
<210> 190
<211> 501
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(501)  
<223> n = A,T,C or G
```

<400> 190							
aagttctgaa	gattcatttt	tgtctgccat	tataaattat	actaatagct	ctacagtcca		60
ctttaagttg	tcccctacat	atgtattata	tatggcatgc	cggtatgtat	tgtccaacca		120
gtacagacct	gacatcagcc	ctacagagcg	cacacataaa	gtcattgcag	tcgtcaacaa		180
gatggtgagc	atgatggagg	gtgtcatcca	gaaacagaag	aatattgcag	gggcacttgc		240
cttctggatg	gcaaatgcat	ctgaacttct	caacttcatt	aagcaagacc	gagaccttag		300
toggatcaca	ctggatgctc	aagatgtttt	agcacatttg	gttcaaatgg	catttaaata		360
cttggttcac	tgtcttcaat	cagaacttaa	taattacatg	ccagcctttc	tagatgaccc		420
tgaagagaac	agtctgcaac	gaccaaaaat	agatgatgtg	ctgcacacgc	tcacaggagc		480
catgtntctg	ctacgacgct	g					501

<210> 191  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 191  
 ttgtgcgtgc tcagccacta ccctttcttn gnccactttc cganagtgtt tgtatactct 60  
 caagcgctcg gnggactgct gtagtgagcg ccttctgggc aagaaactgg gcatccctcg 120  
 aggcgtacaa agggacacca tgtggcggat ctttactgga tcgctgctgg tagaggagaa 180  
 gtcaaagtgcc cttctgcatg accttcgaga gattgaggcc tggatctatc gattgctgcg 240  
 ctcccagta cccgtctctg ggcagaagcg agtagacatc gaggtcctac cccaagagct 300  
 ccagccagct ctgacctttg ctcttcaga cccatctcga ttcaccctag tggatttccc 360  
 actgcacctt cccttggaac ttgtaggtgt ggacgcctgt ctccagntgc taacctgcat 420  
 tctggtagag cacaaggcgg cgctacagtc ccgagactac aatgcactct ccatgtctgt 480  
 gatggcatnc atggcaatga t 501

<210> 192  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 192  
 tttganttga accagaagct ccaggaagaa aaacataaaa gcataactga ggcacttagg 60  
 agacaggagc agaataataa gagttttgag gagacctatg accgaaagct caagaatgaa 120  
 cttctaaact tccacaggct gcatggtgtc tgcttggtt tgggaatcct catatgactt 180  
 tggcaggtgt tggagtttgg aggtctctcg ccacaggagt gcttctatct ccttttggaa 240  
 ccaaaagggc agctggtaac agctgggaaa ggggaagtga actgtgaaaa tgtgcctttt 300  
 ggtattgcta atccggatat aatgctcttg gcagttggct ctccaggactg tgcttagtcc 360  
 ctgagcaciaa aagttcttac cttggttggg ggtgggcaga tggtagaggt ggattggaag 420  
 tgaccgtctg attatcattt gggattgagt ctgttgtgtg ctgtgtaaat ttaatttacc 480  
 cctttgctct ttgtgtcagt t 501

<210> 193  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 193

```

agntttctcgc tctcgcctgc ctgcccgcgc ccttgcttgc tcgcgctttc gctcgccttc      60
tcctcgagga tcgaggggac tctgaccaca gcctgtggct gggaaggag acagaggcgg      120
cggcggctca ggggaaacga ggctgcagtg gtggtagtag gaagatgtcg ggcgaggacg      180
agcaacagga gcaaaactatc gctgaggacc tggtcgtgac caagtataag atggggggcg      240
acatcgccaa cagggtactt cggtccttgg tggaaagcatc tagctcaggt gtgtcgggtac      300
tgagcctgtg tgagaaaggt gatgccatga ttatggaaga aacagggaaa atcttcaaga      360
aagaaaagga aatgaagaaa ggtattgctt tccccaccag catttcggta aataactgtg      420
tatgtcactt ctcccccttg aagagcgacc aggattatat tctcaaggaa ggtgacttgg      480
taaaaattga ccttggggtc c

```

<210> 194

<211> 560

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(560)

<223> n = A,T,C or G

<400> 194

```

ggcttcactc tcacaaactc cttgaatttc ttctctttat tcttttcctt gtcttttgta      60
gttgggggaa tcgcanagac ccgcttcctg gtcaggggtct cctggctggg cttgtctgaa      120
gctgaagggc ccctggtttg gacatgcctc tttcccgggc tctcttctgg ctccagtgac      180
ttctccattc catggaaata cttcatgtga tagtgcaaca gtttggtctt gcggaaaaaat      240
tttaaacagt ccacaacttt gcatctaaac ttatggtcta ggtcgacagc tgggtgatta      300
natgacccaa aatcatctgt tttcttaaaa gtatttggtta cttccacagt cgaaatctct      360
tgtaattcca caaggggaga agtcggttct gttttcatcg tgttttctcc cattgatggg      420
cagttcaact ccaagcctgc agccccggat ccatcccaaa aggagnngca agtcagtga      480
natganacct ggccagcttc caaagcagac ttcaactgac cttcttcaga ttccttggtta      540
ctanacaacg tgtcttgcaa

```

<210> 195

<211> 582

<212> DNA

<213> Homo sapien

<400> 195

```

ggcacctggg gagaaatgga tggagaaggg acctggctgg aaagcctttg ccccgctgct      60
ctgctccgcc cataagagga cccctgaaat gtcccgtgca gtttggtcaa gtcccctgtg      120
tgatgaaatg tgctctcgc cttaccctgt tgagaatacc tgtggtgtgg cagcgagtat      180
tttggtatth gacctgtcca aagacgactt gatacctcta taatgtaaca gaaaaggtca      240
gaaaatatta agcaagtaga agtgtggagc atattaagca agatgaacat ctcggaagc      300
agctgtggaa gccctaactc tgcagataga tctagtgaact ttaaggacct ttggacaaaa      360
ctaaaagaat gtcatgatag agaagtacaa ggtttacaag taaaagtaac caagctaaaa      420
caggaacgaa tcttagatgc acaaagacta gaagaattct tcaccaaaaa tcaacagctg      480
agggaacagc agaaagtcct tcatgaaacc attaaagttt tagaagatcg gttaagagca      540
ggcttatgtg atcgctgtgc agtaactgaa gaacatatgc gg

```

<210> 196

<211> 401

<212> DNA

<213> Homo sapien

<223> n = A, T, C or G

aaaccaaaga	atggattgaa	gagaagaatc	aagctctaaa	cacagacaat	tatggacatg	60
atctcgccag	tgtccaggcc	ctgcaacgca	agcatgaggg	cttcgagagg	gaccttgcg	120
ctctcggtga	caaggtaa	tcccttggtg	aaacagcaga	gcgcctgata	cagtcccatc	180
ccgagtcagc	agaagacctg	caggaaaagt	gcacagagtt	aaaccaggcc	tggagcagcc	240
tggggaaaacg	tgcagatcag	cgcaaggcaa	agttgggtga	ctcccacgac	ctgcagcgct	300
tccttagcga	tttccgggac	ctcatgtctt	ggatcaatgg	aatacggggg	ttggtgtcct	360
cagatgagct	anccaaggat	gtcaccggag	ctgangcatt	g		401

<213> Homo sapien

$\langle 223 \rangle$  n = A, T, C or G

agtttcccg	accatggcca	acctggagcg	caccttcatt	gccatcaagc	cggaaggngt	60
gcancgcggc	ctggtgggcg	agatcatcaa	gcgcttngan	cagaagggat	tcgcctcnt	120
ggccatgaan	ttcctccggg	cctctgaana	acacctgaag	cagcactaca	ttgacctgaa	180
agaccgacca	ttcttccttg	ggctggtgaa	ntacatgaac	tcagggccgg	ttgtggccat	240
ggtctgggag	gggctgaacg	tggtgaagac	aggccgagtg	atgcttgggg	agaccaatcc	300
agnagattca	aagccaggca	ccattcntgg	ggacttctgc	attcagggtt	gnangaacat	360
nattcatggn	agtgattcan	taaaaagtgc	tgaaaaanaa	atcancctat	ggnttaagcc	420
tgaagaactg	gttgactaca	agtcttngnc	tcatgac			457

<213> Homo sapien

aggtcgaacc	cgaggagatg	aaccctttta	ctaagggtgaa	gctgatcaac	gagctgaatg	60
aacgagaggt	ccagcttggg	gtggccgata	aggtgtcctg	gcactccgag	tacaaggaca	120
gcgcctggat	cttcctggga	gggcttcctt	atgaactgac	tgaaggggac	atcatctgtg	180
tgtttctaca	atatggggag	attgttaaca	ttaatctcgt	gcgggacaag	aaaactggga	240
aatccaaagg	attctgtttc	ctctgctatg	aagaccagag	gagcacaatt	ctggccgtcg	300
acaattttta	tgggatcaag	atcaaaggaa	gaactatccg	agtggatcat	gtgtctaact	360
atcgggctcc	taaggactca	gaagaaatag	atgatgtgac	cagacaactc	caggagaagg	420
gctgtggggc	tctgaccccc	tcaccaagtt	tgtctgagag	ctctgaagat	gaaa	474

<213> Homo sapien



<223> n = A, T, C or G

gagaagaaaac	aggaagaaga	agaaacgatg	cagcaagcga	catgggtaaa	atacacattt	60
ccagttaagc	atcaggtttg	gaaacaaaaa	ggtgaagagt	acagagtgac	aggatatggt	120
ggttgagct	ggattagtaa	aactcatggt	tataggtttg	ttcctaaatt	gccaggcaat	180
actaatgtga	attacagaaa	gtcgttagaa	ggaaatgtga	aggagctctt	agattctgac	240
agtataaac	cctgcaagga	agaaccaatg	gaagtagacg	atgacatgaa	aacagagtca	300
catgtaaaatt	gtcaggagag	ttctcaagta	gatgtggtca	atgttagtga	gggttttcat	360
ctaaggacta	gttacaaaaa	gaaaacaaaa	tcatccaaac	tagatggact	tcttgaaagg	420
agaattaaac	agttttacact	ggaagaaaaa	cagcgactcg	aaaaaatcaa	gttgagggggt	480
ggaattaaag	gtataaggaa	agacttctac	aaattcttca	aaaaatctct	ctgaatcacc	540
agtaataacc	gaaagcaaaa	gaanggtgtc	agag			574

<213> Homo sapien

tccataacct	tatggagaga	aaggactttg	agacatggct	tgataacatt	tctgttacat	60
ttctttctct	gacggacttg	cagaaaaatg	aaactctgga	tcacctgatt	agtctgagtg	120
gggcagtcca	gctcaggcat	ctctccaata	acctagagac	tctcctcaag	cgggacttcc	180
tcaaaactcct	tcccttggag	ctcagttttt	atttgttaaa	atggctcgat	cctcagactt	240
tactcacatg	ctgcctcgtc	tctaaacagt	ggaataaggt	gataagtgcc	tgtacagagg	300
tgtggcagac	tgcatgtaaa	aatttgggct	ggcagataga	tgattctgtt	caggacgctt	360
tgacttgga	gaaggtttat	ttgaaggcta	ttttgagaat	gaagcaactg	gaggaccatg	420
aagcctttga	aacctcgtea	ttaattggac	acagtgccag	agtgtatgca	ctttactaca	480
aagatggact	tctctgtaca	gggtcagatg	acttgctgca	aa		522

<213> Homo sapien

<223> n = A, T, C or G

atctccgcct	ggttcggccc	gectgectcc	actcctgect	ctaccatgtc	catcaggggtg	60
accagaagt	cctacaaggt	gtccacctct	ggccccggg	ccttcagcag	ccgctcctac	120
acgagtgggc	ccggttcccg	catcagctcc	tcgagcttct	cccagtgagg	cagcagcaac	180
tttcgcggtg	gectgggccc	cggtataggt	ggggccagcg	gcagggagg	catcacccga	240
gttacgggtca	accagagcct	getgagcccc	cttgtcctgg	aggtggaccc	caacatccag	300
gccgtgcgca	cccaggagaa	ggagcagatc	aagacctca	acaacaagtt	tgctccttc	360
atagacaagg	tacggttcc	ggagcancag	aacaagatgc	tggagaccaa	gtggagcctt	420
cttgacgcag	cagaagacgg	ctcgaagcaa	catggacaac	atgttcnaaa	gctacatcaa	480
caaccttagg	cgnagcttga	a				501

<210> 202  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 202  
 gcgttctgtg gagagagtgc gaggtcaggc catgaacttg ggagatgggt taaagcttga 60  
 aactaaatta ctggatggaa aaaccaagct aatattgtct ccatatgaac ataaatcaaa 120  
 aatttctgtg aagatgggaa ataaggccaa gattgcaaaa tgtcctttaa gaacaaaaaac 180  
 tgggcacatt ctaaaatcaa cacaagatac ttgtattggg agtgaaaaac ttttgcaaaa 240  
 gaagccagtt ggttcagaaa catcacaggc aaaagggtgaa aaaaatggaa tgactttttc 300  
 atccactaag gatttatgta aacaatgtat agataaagac tgtcttcata tccagaaaga 360  
 gatttcacct gcaactccta atatgcagaa gactagaaac accgtaaata catctctagt 420  
 aggtaaaacag aagcctcaca aaaaacacat cacagctgaa aacatgaaga gcagtttggg 480  
 gtgtctaaca caagaccaac t 501

<210> 203  
 <211> 395  
 <212> DNA  
 <213> Homo sapien

<400> 203  
 cttcatcatt gcagactcct tctacatca tgcgtatcgt tttcattata cactttgtgc 60  
 cactttgtctg ctagccttca agggattgca cagctacttc attacagtaa cagaagagat 120  
 tccttcttgt cagaactag aactggccaa ggccaacatg cagctcctat atgagcgtct 180  
 tctcagaaga aaacagctac gaacacagaa agacaacat ctagaggaaa tggatgtaga 240  
 agctcgactt actgaactat gtgaagaagt taagaaaata gagaatcctg atgaactggc 300  
 agaacttata aatatgaatc ttgcgcaact ttgctcactt ttgatggctt tatggggaca 360  
 gtttctggaa gttataacgc tacacgaaga actaa 395

<210> 204  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<400> 204  
 aggtcaggca gaaattggag agggggctca aaagctgctg cggcccaaca gcttgagact 60  
 ggcaagtgac tcagatgcag agtcagactc tcgggcaagc tctcccaact ccaccgtctc 120  
 caacaccagc accgagggtc tcgggggcat catgtctttt gccagcagcc tctatcgga 180  
 ccacagtacc agcttcagtc tttcaaacct cacactgcc accaaagggtg cccgagagaa 240  
 ggccacgccc ttccccagtc tgaaaggaaa caggaggcg ttagtggatc agaagtcac 300  
 tgtcattaaa cacagcccaa cagtgaagaa agaacctcca tcaccccagg gtcgatccag 360  
 caattctagt gagaaccagc agttcctgaa ggaggtggtg cacagcgtgc tggacggcca 420  
 gggagttggc tggctcaaca tgaaaaaggc gcgcgggtg ctggagagcg agcagctgcg 480  
 agtctttgtc ctgagcaagc t 501

<210> 205  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)

```
<210> 208
<211> 398
<212> DNA
<213> Homo sapien
```

<400> 208  
aggctctcca agccctgctg ttatatTTTT ccaggaggga ggggcgattc tgccttgttt 60  
gcagtgaatg gtttcaatat gctcatcaat ggcggatcag agagaaaatc ctgcttctgg 120  
aagctcatcc gacacttaga ccgagtggac tccatcctgc tcacccacat tggggatgac 180  
aatttgcttg gaataaacag catgttacag cggaaaattg cagagctcga ggaagaacag 240  
tcccagggct ccaccacaaa tagtgactgg atgaaaaacc tcctctcccc tgacttagga 300  
gttgattttc tcaatgtacc tgaaaatctc aaaaatccag agccaaacat caagatgaag 360  
agaagcatag aagaagcctg cttcactctc cagtacct 398

<210> 209  
<211> 501  
<212> DNA  
<213> Homo sapien

<400> 209  
gcgagcctc ctgggagttg tagtcgcat cctgaggtaa cggataagtt tataccatgg 60  
atagcacaaa ggagaagtgt gacagttaca aagatgatct tctgcttagg atgggactta 120  
atgataataa agcaggaatg gaaggattag ataaagagaa aattaacaaa attataatgg 180  
aagccacgaa ggggtccaga ttttatggaa atgagctcaa gaaagaaaag caagtcaacc 240  
aacgaattga aaatatgatg caacaaaaag ctcaaatcac cagccaacag ctaagaaaag 300  
cacaattaca ggttgacaga tttgcaatgg aattagaaca aagccgaaat ttgagcaata 360  
ccatagtgca cattgacatg gatgctttct atgcagctgt agaaatgagg gacaatccag 420  
aattgaagga taaaccatt gctgtaggat caatgagtat gctgtctact tcaaattacc 480  
atgcaaggag atttggtggt c 501

<210> 210  
<211> 450  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(450)  
<223> n = A,T,C or G

<400> 210  
cggaacaagt gcagaacagg ataatcggtt cagcaacaaa cagaagaaac tactgaagca 60  
gctgaaattt gcagaatgcc tagaaaaaaa ggtggacatg agcaaagtaa atttgagggt 120  
tataaagcct tggataacaa aaagagtaac ggaaatcctt gggtttgaag atgatgttgt 180  
gattgagttt atattcaacc agctggaagt gaagaatcca gactccaaaa tgatgcaaat 240  
caacctgact ggatttttga atggaaaaaa tgctcgagaa tttatgggag aactgtggcc 300  
cctgctgcta agtgcacaag aaaacatcgc gggaatccct tctgctttcc tagaactgaa 360  
gaaagaagaa ataaaacaaa gacagattga acaagaaaaa ctggcatcta tgaaaaagcn 420  
agatgaagac caagattaaa gagaaangga 450

<210> 211  
<211> 601  
<212> DNA  
<213> Homo sapien

<400> 211  
ctcagagcag ctggaacagg ccaagcgggtt caaagcaaat ctagagaaga acaagcaggg 60  
cctggagaca gataacaagg agctggcgtg tgaggtgaag gtctgcagc aggtcaaggc 120  
tgagtctgag cacaagagga agaagctcga cgcgcaggtc caggagctcc atgccaaggt 180

```
<210> 212
<211> 498
<212> DNA
<213> Homo sapien
```

<400>	212						
atgacaaata	ttccacatct	gtgattctct	ccagtcaaaa	gttctttgag	acgatgccat		60
cggccttggc	caatcggaga	atggaatcat	ctgactcacc	catcctacga	atggccccgc		120
agatagcata	agttttaaac	tggccattaa	acctgcctgt	gaccttgtca	acctcggcga		180
cgttcacctg	gatggatgcg	tggtccttgg	caccgatgat	gcgattgcta	gcggagcatt		240
tccgcggcac	gtacaggtec	acgaactcgc	cggcgctcgt	ctgcatttcg	aggetgggct		300
gcgcctgctg	ccactcgtgc	ogaattcttt	ggatccacta	gtgtcgacct	gcaggcgcgc		360
gagctccagc	ttttgtccct	ttagtgaggg	ttaatttcga	gcttggcgta	atcaanggca		420
tagctgggtc	ctgngngaaa	ttggtatccg	tcacaattcc	ncncaatata	cgagccggaa		480
gtataaaggg	naaagcct						498

```
<210> 213
<211> 601
<212> DNA
<213> Homo sapien
```

```
<210> 214
<211> 500
<212> DNA
<213> Homo sapien
```

<221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

```
<400> 214
aggctgcatt tacggggtct cccggagggc cagagtcgtg gcttacagaa gagacgaaat   60
gtgggtctgag ggacgatatg aatatgaaag aattccgaga gaacgagcac ctccctcgaag  120
tcatcccagt gatgaatctg gttatagatg gacaagagac gatcattctg caagcaggca   180
acctgaatac agggacatga gagatggctt tagaagaaaa agtttctact cttccatta   240
tgcgagagag cgggtctcctt ataaaaggga caatactttt ttcagagaat cacctgttgg   300
ccgaaaggat tctccacaca gcanatctgg ttccagtgtc agtagcanaa gctctctcca   360
gaaaggagca aatcatactc tttccatcag tctcaacata gaaataaaga gaggcctgtc   420
agtctttgaa aacatcaaga gatacttccc ctcaagtggg tcacagttct tctcaaaggg   480
gtagacaaac ccagtaggta                                     500
```

<210> 215  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

```
<400> 215
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taaacacggc tgtgctcagg gctcgcggtt gaccgaaagg atcatgaact agtgacctgg   120
aaagggtact agatggaaac ttgagaaagg actgcttatt gataacagct aagggtattcc   180
tggaagcaga gtaaataaag ctcatggccc accagctaga aagtattctt gccatgagaa   240
aaagaatgtg ataagttatt caacttatga aattcaagtt acatgtgaat tctgccaggc   300
aatacaagga cctgtggaat atgagtgtat acaaaccctt tctatgtact gcgcctggat   360
gtggccagcg ttttaccacac gaggatcatt tggtgtcca taaacataaa catgagatga   420
cactgaaatt tgggtccanca cgtaatgaca gtgtcattgt ggctgatcag accccaacac   480
caacaagatt cttgaaaaac t                                     501
```

<210> 216  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

```
<400> 216
aggcggcctt gggggcatct gcattggagt tgggggtgcc gatgctgtgg atgtcatggc   60
tgggatcccc tgggagttga agtgcccaa ggtgattggc gtgaagctga cgggctctct   120
ctccggttgg tcctcaccac aagatgtgat cctgaagggt gcaggcatcc tcacggtgaa   180
agggtggcaca ggtgcaatcg tggaaatacca cgggcctggg gtagactcca tctcctgcac   240
tggcatggcg acaatctgca acatgggtgc agaaattggg gccaccactt ccgtgttccc   300
ttacaaccac aggatgaaga agtacctgag caagaccggc cgggaagaca ttgccaatct   360
agctgatgaa ttcaaggatc acttggtgcc tgaccctggc tgccattatg accaactaat   420
tgaaattaac ctcatgtgagc tgaagccaca catcaatggg cccttcaccc ctgacctgct   480
cacctgtggg cagaagtggg c                                     501
```

<210> 217  
 <211> 408

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(408)

<223> n = A,T,C or G

<400> 217

gctacacctg	gacgtgacgt	ggggctggga	gcaactggggc	gggatcctgc	cacagtcgct	60
ggacctgttg	ctctgcatca	acatggccca	tgtagcctcc	ctgcgctgca	cggaggaacc	120
cagaatgggg	gcttcgggac	acagccctcc	tggaggacct	gggaaaggcc	agtggcctgc	180
tcttgagag	gatggtggac	atgccagcca	acaacaaatg	cctgatcttc	cggaaaaact	240
aagccccctc	ttcaccctcc	cacacctgca	tccttgccgg	angctctgtg	aggcacgaac	300
cctgcctccc	taggccggac	cttgtggacg	acagcccccac	ccagtctgtg	ctctcagccg	360
ntggccgaag	ggccancct	gtcagaata	aacatgtcct	gctgccgg		408

<210> 218

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 218

tgcttgctc	aaagattaag	ccatgcatgt	ctaagtacgc	acggccggta	tcctgctccg	60
cctgcccag	gnggccatgg	ntaccgggca	gnggttggtc	cagcggttct	tttataccaa	120
gtccttcgtg	aagcactcca	tggagcatgt	gtcaatggcc	tgtgtccacc	tggctttcaa	180
gatagaagag	gccccaaagac	gcatacggga	cgatcatcaat	gtgtttcacc	cgccttcgac	240
agctgagaga	caaaaagaag	cccgtgcctc	tactactgga	tcaagattat	gttaatttaa	300
agaacccaat	tataaaggcg	ggnaagacna	ttcttcaaaa	agatgggntt	ctgcgnccat	360
gtgaagcatn	ctcataagan	aatcgntatg	taccttcagg	gg		402

<210> 219

<211> 486

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(486)

<223> n = A,T,C or G

<400> 219

aatgctgcgg	agattgaggt	gtcgggtcgt	gctgctgagc	tgcccaggct	tcacggagcg	60
gtgttgga	tcaatagctc	ttctagcctt	tgcatgtgtt	aaatataata	gtgtcattgg	120
actaagatgt	tcctgatgcc	aacctcttca	gagttaaaca	gtgggcagaa	cttcctaacc	180
cagtggatga	ccaatccttc	tccgggtcgg	gtcatattaa	atcgtggatt	tcctattttg	240
gaagcagaca	aagagaagcg	agcagcttgt	ggacatttct	accagctttt	nctattaaaa	300
ggcacacatt	tttctgatag	cttcagcttt	tataaatgaa	gaaaaattca	cttcttgaag	360
aacagaagtt	ggagtcaa	aacacttaca	aaccacagtc	agataaatct	gaaaccata	420

```
<210> 220
<211> 380
<212> DNA
<213> Homo sapien
```

```
<210> 221
<211> 406
<212> DNA
<213> Homo sapien
```

<400>	221						
gcggattagc	cttcgcgggg	caaaatggag	ctcgaggcca	tgagcagata	taccagccca		60
gtgaaccag	ctgtcttccc	ccatctgacc	gtgggtgcttt	tggcaattgg	catgttcttc		120
accgcctggt	tcttcgttta	cgangtcacc	tctaccaagt	acactcgtga	tatctataaa		180
gagctcctca	tctccttagt	ggcctcactc	ttcatgggct	ttggagtctt	cttcctgctg		240
ctctgggttg	gcatctacgt	gtgagcacc	aagggttaaca	accagatggc	ttcactgaaa		300
cctgcttttg	taaattactt	ttttttactg	ttgctggaag	tgtcccaact	gctgctcata		360
ataaatgcag	atgtatagcc	ctatagngag	cgtattacaa	ttcact			406

```
<210> 222
<211> 501
<212> DNA
<213> Homo sapien
```

$$\begin{array}{ll} \langle 210 \rangle & 223 \\ \langle 211 \rangle & 455 \end{array}$$



<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(455)

<223> n = A,T,C or G

<400> 223

aatcttatgc	aaaagggaca	caggggttca	aaaataaaaa	tttctcttcc	ccctcccaaa	60
acctgtaccc	cagctccccg	accacaaccc	ccttctctcc	ccggggaaag	caagaaggag	120
caggtgtggc	atctgcagct	gggaananag	aggccgggga	ggtgccgagc	tcggtgctgg	180
tctctttcca	aatataaata	cgtgtgtcan	aactggaaaa	tcctccagca	cccaccaccc	240
aagcactctc	cgttttctgc	cggtgtttgg	agaggggcgg	ggggcagggg	cgccaggcac	300
cggtctggctg	cggtctactg	catccgctgg	gtgtgcaccc	cgcgagcctc	ctgctgctca	360
ttgtagaaga	gatgacactc	gggggtccccc	cgggatggng	ggggctccct	ggatcagctt	420
tccgnggnt	gggggttcaca	caccagcact	tccca			455

<210> 224

<211> 507

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 224

ttaccacac	ccattgtagc	ccttgggtgn	gggatgtgcc	ctgtccctgc	agggccaaaa	60
gggtccatgt	ttccctcaaa	tctcaaagca	gtcctggccc	aggctgcagg	caggaggga	120
gtcgtgacct	cttggcaggc	tcagtccctgc	agctgcccc	agcagccana	ctgtccctgg	180
ggctcgcca	ggcccggg	ctggctggga	ggggagggtg	ctggcaggtc	ttggcatgga	240
ggaaaanagc	tgctgcaggg	cctntcgggg	gaggggttgg	ccaagtaggc	attcaccagc	300
tgcatgatct	cttccacctg	ggggctctgc	aggaggagct	ggntctctcc	caccctcaag	360
gccagggtgn	gggggccc	tagctggcag	gcggccacat	ggccatagct	gacactgngg	420
atgggctccg	tctccctgg	ccggganagg	gacatggcct	tggctcccaa	gcccaggcac	480
agtttntggg	ggagcacccc	gaccagg				507

<210> 225

<211> 572

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(572)

<223> n = A,T,C or G

<400> 225

aaacctccct	taaagattct	ttgatgcttt	gtctatcac	tgtanacctg	gtctttttcc	60
ccccagtttt	ttctttttta	cattctgggt	tgctattttc	anattaataa	tttcatgacc	120
ccatcacagt	acaaaaatac	cccccaaat	gaagttcaaa	tttcatcaaa	acataaatca	180
gagngagnga	gtaaaattat	aaaggccagg	cagcaggaaa	agtcaccctc	aactaccatn	240

```
<210> 226
<211> 401
<212> DNA
<213> Homo sapien
```

```
<210> 227
<211> 501
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G
```

```
<210> 228
<211> 501
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G
```

<400> 228  
gcaggttccc ttttatgggc caggtggtaa ctggaacaca gaacagtgaa ggacagaacc 60

```
<210> 229
<211> 4099
<212> DNA
<213> Homo sapiens
```

<400>	229						
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atcccccgcc	cgctagcccg	ccctgggtccc	cggctcgctc	gctggctggc	gcggccccgg	180	
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&lt;210&gt; 230

&lt;211&gt; 2649

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

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agattttctc	tatgtatata	aagatggcca	cgttagcaaa	cggacaggct	gacaacgcaa	120
gcctcagtac	caacgggctc	ggcagcagcc	cgggcagtg	cgggcacatg	aacggattaa	180
gccacagccc	ggggaacccg	tcgaccattc	ccatgaagga	ccacgatgcc	atcaagctgt	240
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 ctgtcattcc tttagctatt tagggaccaa aggaccaaac tttttattgc agatgtgtag 2100  
 ctctatgtca aatagagggg gaatggagga cccctcctt cctgcctcat ggctgttctt 2160  
 gaaacagctt agagcgattc tatgaaaaaa tgtaataaaa aattaaaaaa aaaacaaaaa 2220  
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 aactcttccc cctcttaaaa tcataatagt tgtacagaat tttaaaaagg aaaagtttaa 2580  
 aatacctata taatagaaga aaaattagag gaaagcaaaa aataaaaaaa aaaaaaaaaa 2640  
 aaactcgag 2649

<210> 231

<211> 3927

<212> DNA

<213> Homo sapiens

<400> 231

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 325 330 335  
 Ala Asn Gly Gln Pro Ala Ala Glu Ala Val Phe Ala Asn Gly Ile His  
 340 345 350  
 Pro Tyr Pro Ala Gln Ser Pro Thr Ala Ala Asp Pro Leu Gln Gln Ala  
 355 360 365  
 Tyr Ala Gly Val Gln Gln Tyr Ala Gly Pro Ala Tyr Pro Ala Ala Tyr  
 370 375 380  
 Gly Gln Ile Ser Gln Ala Phe Pro Gln Pro Pro Pro Met Ile Pro Gln  
 385 390 395 400  
 Gln Gln Arg Glu Gly Pro Glu Gly Cys Asn Leu Phe Ile Tyr His Leu  
 405 410 415  
 Pro Gln Glu Phe Gly Asp Ala Glu Leu Met Gln Met Phe Leu Pro Phe  
 420 425 430  
 Gly Asn Val Ile Ser Ser Lys Val Phe Val Asp Arg Ala Thr Asn Gln  
 435 440 445  
 Ser Lys Cys Phe Gly Phe Val Ser Phe Asp Asn Pro Ala Ser Ala Gln  
 450 455 460  
 Thr Ala Ile Gln Ala Met Asn Gly Phe Gln Ile Gly Met Lys Arg Leu  
 465 470 475 480  
 Lys Val Gln Leu Lys Arg Pro Lys Asp Ala Asn Arg Pro Tyr  
 485 490

&lt;210&gt; 235

&lt;211&gt; 826

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 235

Met Glu Gly Ala Gly Gly Ala Asn Asp Lys Lys Lys Ile Ser Ser Glu  
 5 10 15

Arg	Arg	Lys	Glu	Lys	Ser	Arg	Asp	Ala	Ala	Arg	Ser	Arg	Arg	Ser	Lys
			20					25					30		
Glu	Ser	Glu	Val	Phe	Tyr	Glu	Leu	Ala	His	Gln	Leu	Pro	Leu	Pro	His
		35					40					45			
Asn	Val	Ser	Ser	His	Leu	Asp	Lys	Ala	Ser	Val	Met	Arg	Leu	Thr	Ile
		50				55					60				
Ser	Tyr	Leu	Arg	Val	Arg	Lys	Leu	Leu	Asp	Ala	Gly	Asp	Leu	Asp	Ile
		65			70				75						80
Glu	Asp	Asp	Met	Lys	Ala	Gln	Met	Asn	Cys	Phe	Tyr	Leu	Lys	Ala	Leu
			85					90						95	
Asp	Gly	Phe	Val	Met	Val	Leu	Thr	Asp	Asp	Gly	Asp	Met	Ile	Tyr	Ile
			100					105					110		
Ser	Asp	Asn	Val	Asn	Lys	Tyr	Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr
		115				120					125				
Gly	His	Ser	Val	Phe	Asp	Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met
		130				135					140				
Arg	Glu	Met	Leu	Thr	His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu
					150					155					160
Gln	Asn	Thr	Gln	Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr
				165				170						175	
Ser	Arg	Gly	Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu
			180					185					190		
His	Cys	Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro
		195					200				205				
Gln	Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys
		210				215					220				
Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	Lys
		225			230					235					240
Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr	Cys	Asp
				245					250					255	
Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu	Leu	Leu	Gly
			260					265					270		
Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser	Asp	His	Leu	Thr
		275					280					285			
Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln	Val	Thr	Thr	Gly	Gln
		290				295					300				
Tyr	Arg	Met	Leu	Ala	Lys	Arg	Gly	Gly	Tyr	Val	Trp	Val	Glu	Thr	Gln
					310					315					320
Ala	Thr	Val	Ile	Tyr	Asn	Thr	Lys	Asn	Ser	Gln	Pro	Gln	Cys	Ile	Val
				325					330					335	
Cys	Val	Asn	Tyr	Val	Val	Ser	Gly	Ile	Ile	Gln	His	Asp	Leu	Ile	Phe
			340					345					350		
Ser	Leu	Gln	Gln	Thr	Glu	Cys	Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp
		355					360					365			
Met	Lys	Met	Thr	Gln	Leu	Phe	Thr	Lys	Val	Glu	Ser	Glu	Asp	Thr	Ser
		370				375					380				
Ser	Leu	Phe	Asp	Lys	Leu	Lys	Lys	Glu	Pro	Asp	Ala	Leu	Thr	Leu	Leu
				390						395					400
Ala	Pro	Ala	Ala	Gly	Asp	Thr	Ile	Ile	Ser	Leu	Asp	Phe	Gly	Ser	Asn
				405					410					415	
Asp	Thr	Glu	Thr	Asp	Asp	Gln	Gln	Leu	Glu	Glu	Val	Pro	Leu	Tyr	Asn
			420					425					430		
Asp	Val	Met	Leu	Pro	Ser	Pro	Asn	Glu	Lys	Leu	Gln	Asn	Ile	Asn	Leu
		435					440						445		

Ala Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser  
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 Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu Pro  
 465 470 475 480  
 Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile Gln Asp  
 485 490 495  
 Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser Ser Pro Glu  
 500 505 510  
 Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp Ser Asp Met Val  
 515 520 525  
 Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu Phe Ala Glu Asp Thr  
 530 535 540  
 Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp Thr Asp Leu Asp Leu Glu  
 545 550 555 560  
 Met Leu Ala Pro Tyr Ile Pro Met Asp Asp Phe Gln Leu Arg Ser  
 565 570 575  
 Phe Asp Gln Leu Ser Pro Leu Glu Ser Ser Ser Ala Ser Pro Glu Ser  
 580 585 590  
 Ala Ser Pro Gln Ser Thr Val Thr Val Phe Gln Gln Thr Gln Ile Gln  
 595 600 605  
 Glu Pro Thr Ala Asn Ala Thr Thr Thr Thr Ala Thr Thr Asp Glu Leu  
 610 615 620  
 Lys Thr Val Thr Lys Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala  
 625 630 635 640  
 Ser Pro Ser Pro Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser  
 645 650 655  
 Ser Pro Tyr Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala  
 660 665 670  
 Gly Lys Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro  
 675 680 685  
 Asn Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu  
 690 695 700  
 Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys Arg  
 705 710 715 720  
 Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile Gly Thr  
 725 730 735  
 Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser Leu Ser Trp  
 740 745 750  
 Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn Gly Met Glu Gln  
 755 760 765  
 Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly  
 770 775 780  
 Gln Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys  
 785 790 795 800  
 Glu Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu  
 805 810 815  
 Glu Leu Leu Arg Ala Leu Asp Gln Val Asn  
 820 825

&lt;210&gt; 236

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 236

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Asn Met Thr Glu Arg Arg Arg Asp Glu Leu Ser Glu Glu Ile Asn Asn
      20      25      30
Leu Arg Glu Lys Val Met Lys Gln Ser Glu Glu Asn Asn Asn Leu Gln
      35      40      45
Ser Gln Val Gln Lys Leu Thr Glu Glu Asn Thr Thr Leu Arg Glu Gln
      50      55      60
Val Glu Pro Thr Pro Glu Asp Glu Asp Asp Ile Glu Leu Arg Gly
      65      70      75      80
Ala Ala Ala Ala Ala Pro Pro Pro Pro Ile Glu Glu Glu Cys Pro
      85      90      95
Glu Asp Leu Pro Glu Lys Phe Asp Gly Asn Pro Asp Met Leu Ala Pro
      100      105      110
Phe Met Ala Gln Cys Gln Ile Phe Met Glu Lys Ser Thr Arg Asp Phe
      115      120      125
Ser Val Asp Arg Val Arg Val Cys Phe Val Thr Ser Met Met Thr Gly
      130      135      140
Arg Ala Ala Arg Trp Ala Ser Ala Lys Leu Glu Arg Ser His Tyr Leu
      145      150      155      160
Met His Asn Tyr Pro Ala Phe Met Met Glu Met Lys His Val Phe Glu
      165      170      175
Asp Pro Gln Arg Arg Glu Val Ala Lys Arg Lys Ile Arg Arg Leu Arg
      180      185      190
Gln Gly Met Gly Ser Val Ile Asp Tyr Ser Asn Ala Phe Gln Met Ile
      195      200      205
Ala Gln Asp Leu Asp Trp Asn Glu Pro Ala Leu Ile Asp Gln Tyr His
      210      215      220
Glu Gly Leu Ser Asp His Ile Gln Glu Glu Leu Ser His Leu Glu Val
      225      230      235      240
Ala Lys Ser Leu Ser Ala Leu Ile Gly Gln Cys Ile His Ile Glu Arg
      245      250      255
Arg Leu Ala Arg Ala Ala Ala Ala Arg Lys Pro Arg Ser Pro Pro Arg
      260      265      270
Ala Leu Val Leu Pro His Ile Ala Ser His His Gln Val Asp Pro Thr
      275      280      285
Glu Pro Val Gly Gly Ala Arg Met Arg Leu Thr Gln Glu Glu Lys Glu
      290      295      300
Arg Arg Arg Lys Leu Asn Leu Cys Leu Tyr Cys Gly Thr Gly Gly His
      305      310      315      320
Tyr Ala Asp Asn Cys Pro Ala Lys Ala Ser Lys Ser Ser Pro Ala Gly
      325      330      335
Asn Ser Pro Ala Pro Leu
      340

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&lt;210&gt; 237

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

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gtaccgggac cagcacttcc ggggtgacaa tgaagaacaa gaaaaattac tgaagaaaag 180
ctgtacgtta tatgttgga atctttcttt ttacacaact gaagaacaaa tctatgaact 240
cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300
agcatgtgga ttctgttttg tggaaatatta ctcacgcgca gatgcggaaa acgccatgcg 360
gtacataaat gggacgcgtc tggatgaccg aatcattcgc aca 403

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<210> 238

<211> 183

<212> DNA

<213> Homo sapiens

<400> 238

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acataactta cggtaaattg cccgcctggc tgaccgccca acgacccccg cccattgacg 120
tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg acgtcaatgg 180
gtg 183

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<210> 239

<211> 403

<212> DNA

<213> Homo sapiens

<400> 239

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ccatcatggc agctatgtga aacactaata aatgtgtttt tactttttat tcccgttaaa 180
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atttccttag atgtttctaa agaaacattt tcagctttgc tcccattatg attccaataa 300
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taggagacgt ctgaattttg aatgataaac agtgatgttt taa 403

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<210> 240

<211> 3148

<212> DNA

<213> Homo sapiens

<400> 240

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tggttaagaa ggcgattact gcagtctttg accagttact ggagtttggt actgaaggat 180
cacattttgt tgaagcaaca tataagaatc cggaacttga tcgaatagcc actgaagatg 240
atctggtaga aatgcaagga tataaagaca agctttccat cattggtgag gtgctatctc 300
ggagacacat gaaggtggca ttttttgcca ggacaagcag tgggaagagc tctgttatca 360
atgcaatgtt gtgggataaa gttctcccta gtgggattgg ccatataacc aattgcttcc 420
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aaaagagtggt gaagacagtt aatcaactgg cccatgccct tcacatggac aaagatttga 540
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ataagttttg cctagatgct gatgtctttg ttttggtcgc aaactctgaa tcaacactaa 720
tgaatacggg aaaacacttt tttcacaagg tgaatgagcg gctttccaag cctaataattt 780
tcattctcaa taatcgttgg gatgcctctg catcagagcc agaatatatg gaagacgtac 840
gcagacagca catggaaaaga tgcctgcatt tcttggtgga ggagctcaaa gttgtaaatg 900

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ctttagaagc acagaatcgt atcttctttt tttcagcaaa ggaagttctt agtgctagaa 960
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&lt;210&gt; 241

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 241

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tcttgactga tgggtgtccc tttaaccctt ggcagtata atagaatttt ggtgaatgaa 180
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gcattatgta attgtcctta gtctttttgt tgttttagaa aaa 283

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&lt;210&gt; 242

&lt;211&gt; 5526

&lt;212&gt; DNA



&lt;400&gt; 242

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tacctcagtt	ggcaggaaaag	agacatatag	taqaaaqtga	aaaatgaqca	qtattttqqgc	3060

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agatgctatg ggttacagtt gaagggtaaa aggaacttta cattgggaaa cctttataacc 3120
cttgtgaatt atgtacatgg taaaatgttc tctctctaca aagaactatt aaaacttctg 3180
aaatatacta ttttttacct tatttataga aattgagacc tagcatatth aagcataagt 3240
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gatggctctt tgccatgggt cttattttca cctctttt tgtaagaaaa aagaacaatg 5460
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atagat 5526

```

&lt;210&gt; 243

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

```

cataaagggt gtgcgcgtct tcgacgtggc ggtcttggcg ccaactgctgc gagaccggc 60
cctggacctc aaggtcatcc acttggtgcg tgatccccgc ggggtggcga gttcacggat 120
ccgctcgcgc cagggcctca tccgtgagag cctacaggtg gtgcgcagcc gagaccggc 180
agctcaccgc atgcccttct tggaggccgc gggccacaag cttggcgcca agaaggagg 240
cgtgggcggc cccgcagact accacgctct gggcgctatg gaggtcatct gcaatagtat 300

```

ggc

303

<210> 244  
 <211> 2393  
 <212> DNA  
 <213> Homo sapiens

<400> 244  
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 cgcctcggc tccaggtcct acccgagacc gctgccatgg gagagccagc cttgggcgct 120  
 ggggaccagc cgcgcgccc gctcggagt cgcggcccga gtcccggcgc cagcagccag 180  
 cccgtgctg ccccttccc ggctgcaggg ctgcctccgc cgcgcgccc gcccggattg 240  
 tgctgtgat gagccgagc ccgcagcgag ctctgcccc gggcgcgctc cctcggctgc 300  
 tccaggtctg gcctgcagcg cagccgctg cctgctccc gcagtggccc cggcgcccag 360  
 gacgcgctg gcccgcgtc cctctcgaa tgaagggtgt ccgtaggaag gcgctggtgt 420  
 tgtgcgcggg ctatgcactg ctgctggtgc tcactatgct caacctcctg gactacaagt 480  
 ggcacaagga cccgctgcag cagtgcacc ccgatgggccc gctgggtgcc gcagcggggg 540  
 cagccggagg caagctgggg gcgcccaggg ccgcctccgg ccgggcccgc ccgtgctcat 600  
 gccggtttg acctccgcac tccttaccgc cctcccgtg ccgcgctcgg ggcgatactc 660  
 tgcagccgcg gcagggatgg cgggggttgc ggccctcca ggcaatggca ctcggggcac 720  
 cggagggcgt cggggacaag cggcactgga tgtacgtgtt caccacgtgg cgctctggct 780  
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 gggacatgct gagcgtctct taccgctgcg acctctctgt cttccagttg tatagccccg 960  
 cgggcagcgg ggggcgcaac ctaccacgc tgggcatctt cggcgagcc accaacaagg 1020  
 tgggtgtgctc gtcaccactc tgccccgcct accgcaagga ggctgtgggg ttggtggacg 1080  
 accgcgtgtg caagaagtgc ccgccacagc gcctggcgcg ttctgaggag gagtgcgca 1140  
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 agggccacta cctggtggtg cggtagcagg acctggtggg agaccccgctc aagacactac 1560  
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 acctgattcc ctgtggtgat acctataaag aggatcgtag tgtgtttaa taaacacagt 1920  
 ccagactcaa acggaggaag ccacatatt ctattataga tatataaata atcacacaca 1980  
 cacttgctgt caatgttttg agtcagtgc tttcaaggaa cagccacaaa atacacaccc 2040  
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 tgaacatgtt aagagtaatt tggatgtggg ggtgggggtg gagaaagggg aagtgggtcca 2280  
 gaaacaaaaa gccccattgg gcatgataag ccgaggaggc attcttccta aaagtagact 2340  
 tttgtgtaaa aagcaaaggt tacatgtgag tattaataaa gaagataata aat 2393

<210> 245  
 <211> 473  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 245

```

ccaacacagt cagaaacatt gttttgaatc ctctgtaaac caaggcatta atcttaataa 60
accaggatcc atttaggtac cacttgatat aaaaaggata tccataatga atattttata 120
ctgcatcctt tacattagcc actaaatacg ttattgcttg atgaagacct ttcacagaat 180
cctatggatt gcagcatttc acttggtctac ttcataccca tgccttaaag aggggcagtt 240
tctcaaaagc agaaacatgc cgccagttct caagttttcc tcctaactcc atttgaatgt 300
aagggcagct ggccccaat gtggggagggt ccgaacattt tctgaattcc cattttcttg 360
ttcgcggtta aatgacagtt tctgtcatta cttagattcc gatctttccc aaagggtgtg 420
atttacaag aggccagcta atagcagaaa tcatgaccct gaaagagaga tga 473

```

&lt;210&gt; 246

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 246

```

ggcattaact tttagaattt gggctggtga gattaatttt ttttaatatc ccagctagag 60
atatggcctt taactgacct aaagagggtgt gttgtgattt aattttttcc cgttcctttt 120
tcttcagtaa acccaacaat agtctaacct taaaaattga gttgatgtcc ttataggtca 180
ctacccttaa ataaacctga agcagggtgtt ttctcttgga catactaaaa aatacctaaa 240
aggaagctta gatggtctgt gacacaaaaa attcaattac tgtcatctaa tgccagctgt 300
taaaagtgtg gccactgagc atttgatttt ataggaaaaa atagtatttt tgagaataac 360
atagctgtgc tattgcacat ctggtggagg acatcccaga ttgctttata ctcagtgctc 420
gtgatattga gtttaaggat ttgaggcagg ggtaattatt aaacatattg cttctattct 480
tggaataata gaagtgtaaa atggttaataa tac 513

```

&lt;210&gt; 247

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

```

ccagtgtggt ggaattcgcg gtaggctggg accataacac aagcatgact atatgaagga 60
agaggaaggt tttcctgaag atgaggcgac tgaatcggaa aaaaacttta agtttggtta 120
aagagttgga tgctttccg aaggttcctg agagctatgt agagacttca gccagtggag 180
gtacagtttc tctaatagca tttacaacta tggctttatt aaccataatg gaattctcag 240
tatatcaaga tacatggatg aagtatgaat acgaagtaga caaggatttt tctagcaaat 300
taagaattaa tatagatatt actgttgcca tgaagtgtca atatgttgga gcggatgtat 360
tggaatttagc agaaacaatg gttgcatctg cagatggttt agtttatgaa ccaacagtat 420
ttgatctttc accacagcag aaagagtggc agaggatgct gcagctgatt cagagtaggc 480
tacaagaaga gcattcactt caagatgtga tttttaaaag tgcttttaaa agt 533

```

&lt;210&gt; 248

&lt;211&gt; 1362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

```

gggacccggg cttctgtgaa acatggcggg aggctgggac cataacacaa gcatgactat 60
atgaaggaag aggaaggttt tcctgaagat gaggcgactg aatcggaaaa aaactttaag 120
tttggtaaaa gagttggatg cttttccgaa ggttcctgag agctatgtag agacttcagc 180
cagtggaggt acagtttctc taatagcatt tacaactatg gctttattaa ccataatgga 240
attctcagta tatcaagata catggatgaa gtatgaatac gaagtagaca aggatttttc 300
tagcaaatta agaattaata tagatattac tgttgccatg aagtgtcaat atgttgagc 360

```

```

ggatgtattg gatttagcag aaacaatggt tgcattctgca gatggtttag tttatgaacc 420
aacagtattt gatctttcac cacagcagaa agagtggcag aggatgctgc agctgattca 480
gagtaggcta caagaagagc attcacttca agatgtgata tttaaaagtg cttttaaaag 540
tacatcaaca gctcttccac caagagaaga tgattcatca cagtctccaa atgcatgcag 600
aattcatggc catctatatg tcaataaagt agcagggaat tttcacataa cagtgggcaa 660
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tcttttagaa aataatacac attaacacct ccgattgaa ggagaaaaac ttttgcctg 1260
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```

```

<210> 249
<211> 513
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(513)
<223> n = A,T,C or G

```

```

<400> 249
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attcaaggag tacctctctc tagaactgta cgctgtacct gcatcagcat tagtaatcaa 180
cctgttaatc caaggtcttt agaaaaactt gaaattatct ctgcaagcca attttgtcca 240
cgtgttgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa 300
tcgaaggcca tcaagaattt actgaaagca gtttagcaagg aaaggtctaa aagatctcct 360
taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtttgca 480
gttacactaa aaggtagacca atcatggtca cca 513

```

```

<210> 250
<211> 1172
<212> DNA
<213> Homo sapiens

```

```

<400> 250
gagacattcc tcaattgctt agacatatctc tgagcctaca gcagaggaac ctccagtctc 60
agcaccatga atcaaactgc gattctgatt tgctgcctta tctttctgac tctaagtggc 120
attcaaggag tacctctctc tagaaccgta cgctgtacct gcatcagcat tagtaatcaa 180
cctgttaatc caaggtcttt agaaaaactt gaaattatct ctgcaagcca attttgtcca 240
cgtgttgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa 300
tcgaaggcca tcaagaattt actgaaagca gtttagcaagg aaatgtctaa aagatctcct 360
taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtttgca 480
gttacactaa aaggtagacca atgatggtca ccaaatacgc tgctactact cctgtaggaa 540

```

```

ggttaatgtt catcatccta agctattcag taataactct accctggcac tataatgtaa 600
gctctactga ggtgctatgt tcttagtgga tgttctgacc ctgcttcaaa tatttccttc 660
acctttccca tcttccaagg gtactaagga atctttctgc tttggggttt atcagaattc 720
tcagaatctc aaataactaa aaggatgca atcaaactcg ctttttaaaag aatgctcttt 780
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cttattttaat gaaagactgt acaaagtata agtcttagat gtatatattt cctatattgt 960
tttcagtgtg catggaataa catgtaatta agtactatgt atcaatgagt aacaggaaaa 1020
ttttaaaaat acagatagat atatgctctg catgttacat aagataaatg tgctgaatgg 1080
ttttcaaata aaaatgaggt actctcctgg aaatattaag aaagactatc taaatgttga 1140
aagatcaaaa ggttaataaa gtaattataa ct 1172

```

<210> 251

<211> 483

<212> DNA

<213> Homo sapiens

<400> 251

```

atataaccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggcctttgaa ctttcatagg 240
aaaaatgacc caacatttct tagcatgagc tacctcatct ctagaagctg ggatggactt 300
actattcttg tttatatttt agatactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcagggctaa aaaggtaatta ttatttttcc tttaatgatg gtgctaaaaat 420
tcttcctata aaattcctta aaaataaaga tgggtttaatc actaccattg tgaaaacata 480
act 483

```

<210> 252

<211> 156

<212> PRT

<213> Homo sapiens

<400> 252

```

Met Ser Gly Gly Leu Leu Lys Ala Leu Arg Ser Asp Ser Tyr Val Glu
                    5              10              15
Leu Ser Gln Tyr Arg Asp Gln His Phe Arg Gly Asp Asn Glu Glu Gln
                    20              25              30
Glu Lys Leu Leu Lys Lys Ser Cys Thr Leu Tyr Val Gly Asn Leu Ser
                    35              40              45
Phe Tyr Thr Thr Glu Glu Gln Ile Tyr Glu Leu Phe Ser Lys Ser Gly
                    50              55              60
Asp Ile Lys Lys Ile Ile Met Gly Leu Asp Lys Met Lys Lys Thr Ala
                    65              70              75              80
Cys Gly Phe Cys Phe Val Glu Tyr Tyr Ser Arg Ala Asp Ala Glu Asn
                    85              90              95
Ala Met Arg Tyr Ile Asn Gly Thr Arg Leu Asp Asp Arg Ile Ile Arg
                    100             105             110
Thr Asp Trp Asp Ala Gly Phe Lys Glu Gly Arg Gln Tyr Gly Arg Gly
                    115             120             125
Arg Ser Gly Gly Gln Val Arg Asp Glu Tyr Arg Gln Asp Tyr Asp Ala
                    130             135             140
Gly Arg Gly Gly Tyr Gly Lys Leu Ala Gln Asn Gln
145              150              155

```

<400>	253														
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				5					10					15	
Ala	Ile	Thr	Ala	Val	Phe	Asp	Gln	Leu	Leu	Glu	Phe	Val	Thr	Glu	Gly
			20					25					30		
Ser	His	Phe	Val	Glu	Ala	Thr	Tyr	Lys	Asn	Pro	Glu	Leu	Asp	Arg	Ile
		35					40					45			
Ala	Thr	Glu	Asp	Asp	Leu	Val	Glu	Met	Gln	Gly	Tyr	Lys	Asp	Lys	Leu
	50					55					60				
Ser	Ile	Ile	Gly	Glu	Val	Leu	Ser	Arg	Arg	His	Met	Lys	Val	Ala	Phe
	65				70					75					80
Phe	Gly	Arg	Thr	Ser	Ser	Gly	Lys	Ser	Ser	Val	Ile	Asn	Ala	Met	Leu
				85					90					95	
Trp	Asp	Lys	Val	Leu	Pro	Ser	Gly	Ile	Gly	His	Ile	Thr	Asn	Cys	Phe
			100					105					110		
Leu	Ser	Val	Glu	Gly	Thr	Asp	Gly	Asp	Lys	Ala	Tyr	Leu	Met	Thr	Glu
		115					120					125			
Gly	Ser	Asp	Glu	Lys	Lys	Ser	Val	Lys	Thr	Val	Asn	Gln	Leu	Ala	His
	130					135					140				
Ala	Leu	His	Met	Asp	Lys	Asp	Leu	Lys	Ala	Gly	Cys	Leu	Val	Arg	Val
145					150					155					160
Phe	Trp	Pro	Lys	Ala	Lys	Cys	Ala	Leu	Leu	Arg	Asp	Asp	Leu	Val	Leu
				165					170					175	
Val	Asp	Ser	Pro	Gly	Thr	Asp	Val	Thr	Thr	Glu	Leu	Asp	Ser	Trp	Ile
			180					185					190		
Asp	Lys	Phe	Cys	Leu	Asp	Ala	Asp	Val	Phe	Val	Leu	Val	Ala	Asn	Ser
		195					200					205			
Glu	Ser	Thr	Leu	Met	Asn	Thr	Glu	Lys	His	Phe	Phe	His	Lys	Val	Asn
	210					215					220				
Glu	Arg	Leu	Ser	Lys	Pro	Asn	Ile	Phe	Ile	Leu	Asn	Asn	Arg	Trp	Asp
225					230					235					240
Ala	Ser	Ala	Ser	Glu	Pro	Glu	Tyr	Met	Glu	Asp	Val	Arg	Arg	Gln	His
				245					250					255	
Met	Glu	Arg	Cys	Leu	His	Phe	Leu	Val	Glu	Glu	Leu	Lys	Val	Val	Asn
			260					265					270		
Ala	Leu	Glu	Ala	Gln	Asn	Arg	Ile	Phe	Phe	Val	Ser	Ala	Lys	Glu	Val
		275					280					285			
Leu	Ser	Ala	Arg	Lys	Gln	Lys	Ala	Gln	Gly	Met	Pro	Glu	Ser	Gly	Val
	290					295					300				
Ala	Leu	Ala	Glu	Gly	Phe	His	Ala	Arg	Leu	Gln	Glu	Phe	Gln	Asn	Phe
305					310					315					320
Glu	Gln	Ile	Phe	Glu	Glu	Cys	Ile	Ser	Gln	Ser	Ala	Val	Lys	Thr	Lys
				325					330					335	
Phe	Glu	Gln	His	Thr	Ile	Arg	Ala	Lys	Gln	Ile	Leu	Ala	Thr	Val	Lys
			340					345					350		
Asn															

Val Gln  
370

<210> 254  
<211> 429  
<212> PRT  
<213> Homo sapiens

<400> 254  
Gly Pro Trp Gly Ser Gly Val Gly Gly Gly Gly Thr Val Arg Leu Leu  
                  5                  10                  15  
Leu Ile Leu Ser Gly Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val  
                  20                  25                  30  
Asn Val Val Met Leu Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser  
                  35                  40                  45  
Gln Gln Phe Cys Tyr Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile  
                  50                  55                  60  
Trp Thr Arg Ile Gln Ile Arg Val Asn Ser Ser Arg Leu Val Arg Val  
                  65                  70                  75                  80  
Thr Gln Val Glu Asn Glu Glu Lys Leu Lys Glu Leu Glu Gln Phe Ser  
                  85                  90                  95  
Ile Trp Asn Phe Phe Ser Ser Phe Leu Lys Glu Lys Leu Asn Asp Thr  
                  100                  105                  110  
Tyr Val Asn Val Gly Leu Tyr Ser Thr Lys Thr Cys Leu Lys Val Glu  
                  115                  120                  125  
Ile Ile Glu Lys Asp Thr Lys Tyr Ser Val Ile Val Ile Arg Arg Phe  
                  130                  135                  140  
Asp Pro Lys Leu Phe Leu Val Phe Leu Leu Gly Leu Met Leu Phe Phe  
                  145                  150                  155                  160  
Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr Tyr Ser Thr Gly  
                  165                  170                  175  
Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile Ile Phe Ile Leu  
                  180                  185                  190  
Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val Ile Leu Val Gly  
                  195                  200                  205  
Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val Phe Lys Asn Leu  
                  210                  215                  220  
Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu Ser Tyr Val Leu  
                  225                  230                  235                  240  
Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys Tyr Gly Pro Leu  
                  245                  250                  255  
Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr Leu Gln Leu Met  
                  260                  265                  270  
Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro His Ile Ala Leu  
                  275                  280                  285  
Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu Glu His Pro Ile  
                  290                  295                  300  
Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys Gly Ala Glu Lys  
                  305                  310                  315                  320  
Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr Arg Ile Gln Gly  
                  325                  330                  335  
Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg Glu Phe Cys Asn  
                  340                  345                  350



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<210> 255
<211> 531
<212> PRT
<213> Homo sapiens
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<400>	255														
Met	Ser	Arg	Ser	Pro	Gln	Arg	Ala	Leu	Pro	Pro	Gly	Ala	Leu	Pro	Arg
				5					10					15	
Leu	Leu	Gln	Ala	Ala	Pro	Ala	Ala	Gln	Pro	Arg	Ala	Leu	Leu	Pro	Gln
			20					25					30		
Trp	Pro	Arg	Arg	Pro	Gly	Arg	Arg	Trp	Pro	Ala	Ser	Pro	Leu	Gly	Met
		35				40					45				
Lys	Val	Phe	Arg	Arg	Lys	Ala	Leu	Val	Leu	Cys	Ala	Gly	Tyr	Ala	Leu
	50				55					60					
Leu	Leu	Val	Leu	Thr	Met	Leu	Asn	Leu	Leu	Asp	Tyr	Lys	Trp	His	Lys
	65				70					75					80
Glu	Pro	Leu	Gln	Gln	Cys	Asn	Pro	Asp	Gly	Pro	Leu	Gly	Ala	Ala	Ala
				85					90					95	
Gly	Ala	Ala	Gly	Gly	Lys	Leu	Gly	Ala	Pro	Arg	Ala	Ala	Ser	Gly	Arg
			100					105					110		
Ala	Ala	Pro	Cys	Ser	Cys	Pro	Phe	Gly	Pro	Pro	His	Ser	Leu	Pro	Pro
		115					120					125			
Ser	Arg	Cys	Arg	Arg	Arg	Gly	Asp	Thr	Leu	Gln	Pro	Arg	Gln	Gly	Trp
	130					135					140				
Arg	Gly	Leu	Arg	Pro	Leu	Gln	Ala	Met	Ala	Leu	Gly	Ala	Pro	Glu	Gly
145				150						155				160	
Val	Gly	Asp	Lys	Arg	His	Trp	Met	Tyr	Val	Phe	Thr	Thr	Trp	Arg	Ser
			165						170					175	
Gly	Ser	Ser	Phe	Gly	Glu	Leu	Phe	Asn	Gln	Asn	Pro	Glu	Val	Phe	
			180				185					190			
Phe	Leu	Tyr	Glu	Pro	Val	Trp	His	Val	Trp	Gln	Lys	Leu	Tyr	Pro	Gly
	195					200						205			
Asp	Ala	Val	Ser	Leu	Gln	Gly	Ala	Ala	Arg	Asp	Met	Leu	Ser	Ala	Leu
	210					215					220				
Tyr	Arg	Cys	Asp	Leu	Ser	Val	Phe	Gln	Leu	Tyr	Ser	Pro	Ala	Gly	Ser
225				230						235					240
Gly	Gly	Arg	Asn	Leu	Thr	Thr	Leu	Gly	Ile	Phe	Gly	Ala	Ala	Thr	Asn
			245					250						255	
Lys	Val	Val	Cys	Ser	Ser	Pro	Leu	Cys	Pro	Ala	Tyr	Arg	Lys	Glu	Val
			260					265					270		
Val	Gly	Leu	Val	Asp	Asp	Arg	Val	Cys	Lys	Lys	Cys	Pro	Pro	Gln	Arg
		275					280					285			

Leu Ala Arg Phe Glu Glu Glu Cys Arg Lys Tyr Arg Thr Leu Val Ile  
 290 295 300  
 Lys Gly Val Arg Val Phe Asp Val Ala Val Leu Ala Pro Leu Leu Arg  
 305 310 315 320  
 Asp Pro Ala Leu Asp Leu Lys Val Ile His Leu Val Arg Asp Pro Arg  
 325 330 335  
 Ala Val Ala Ser Ser Arg Ile Arg Ser Arg His Gly Leu Ile Arg Glu  
 340 345 350  
 Ser Leu Gln Val Val Arg Ser Arg Asp Pro Arg Ala His Arg Met Pro  
 355 360 365  
 Phe Leu Glu Ala Ala Gly His Lys Leu Gly Ala Lys Lys Glu Gly Val  
 370 375 380  
 Gly Gly Pro Ala Asp Tyr His Ala Leu Gly Ala Met Glu Val Ile Cys  
 385 390 395 400  
 Asn Ser Met Ala Lys Thr Leu Gln Thr Ala Leu Gln Pro Pro Asp Trp  
 405 410 415  
 Leu Gln Gly His Tyr Leu Val Val Arg Tyr Glu Asp Leu Val Gly Asp  
 420 425 430  
 Pro Val Lys Thr Leu Arg Arg Val Tyr Asp Phe Val Gly Leu Leu Val  
 435 440 445  
 Ser Pro Glu Met Glu Gln Phe Ala Leu Asn Met Thr Ser Gly Ser Gly  
 450 455 460  
 Ser Ser Ser Lys Pro Phe Val Val Ser Ala Arg Asn Ala Thr Gln Ala  
 465 470 475 480  
 Ala Asn Ala Trp Arg Thr Ala Leu Thr Phe Gln Gln Ile Lys Gln Val  
 485 490 495  
 Glu Glu Phe Cys Tyr Gln Pro Met Ala Val Leu Gly Tyr Glu Arg Val  
 500 505 510  
 Asn Ser Pro Glu Glu Val Lys Asp Leu Ser Lys Thr Leu Leu Arg Lys  
 515 520 525  
 Pro Arg Leu  
 530

<210> 256  
 <211> 378  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Met Arg Arg Leu Asn Arg Lys Lys Thr Leu Ser Leu Val Lys Glu Leu  
 5 10 15  
 Asp Ala Phe Pro Lys Val Pro Glu Ser Tyr Val Glu Thr Ser Ala Ser  
 20 25 30  
 Gly Gly Thr Val Ser Leu Ile Ala Phe Thr Thr Met Ala Leu Leu Thr  
 35 40 45  
 Ile Met Glu Phe Ser Val Tyr Gln Asp Thr Trp Met Lys Tyr Glu Tyr  
 50 55 60  
 Glu Val Asp Lys Asp Phe Ser Ser Lys Leu Arg Ile Asn Ile Asp Ile  
 65 70 75 80  
 Thr Val Ala Met Lys Cys Gln Tyr Val Gly Ala Asp Val Leu Asp Leu  
 85 90 95  
 Ala Glu Thr Met Val Ala Ser Ala Asp Gly Leu Val Tyr Glu Pro Thr  
 100 105 110

Val Phe Asp Leu Ser Pro Gln Gln Lys Glu Trp Gln Arg Met Leu Gln  
 115 120 125  
 Leu Ile Gln Ser Arg Leu Gln Glu Glu His Ser Leu Gln Asp Val Ile  
 130 135 140  
 Phe Lys Ser Ala Phe Lys Ser Thr Ser Thr Ala Leu Pro Pro Arg Glu  
 145 150 155 160  
 Asp Asp Ser Ser Gln Ser Pro Asn Ala Cys Arg Ile His Gly His Leu  
 165 170 175  
 Tyr Val Asn Lys Val Ala Gly Asn Phe His Ile Thr Val Gly Lys Ala  
 180 185 190  
 Ile Pro His Pro Arg Gly His Ala His Leu Gly Ser Thr Cys Gln Pro  
 195 200 205  
 Trp Asn Leu Thr Ile Phe Ser His Arg Ile Asp His Leu Ser Phe Gly  
 210 215 220  
 Glu Leu Val Pro Ala Ile Ile Asn Pro Leu Asp Gly Thr Glu Lys Ile  
 225 230 235 240  
 Ala Ile Asp His Asn Gln Met Phe Gln Tyr Phe Ile Thr Val Val Pro  
 245 250 255  
 Thr Lys Leu His Thr Tyr Lys Ile Ser Ala Asp Thr His Gln Phe Ser  
 260 265 270  
 Val Thr Glu Arg Glu Arg Ile Ile Asn His Ala Ala Gly Ser His Gly  
 275 280 285  
 Val Ser Gly Ile Phe Met Lys Tyr Asp Leu Ser Ser Leu Met Val Thr  
 290 295 300  
 Val Thr Glu Glu His Met Pro Phe Trp Gln Phe Phe Val Arg Leu Cys  
 305 310 315 320  
 Gly Ile Val Gly Gly Ile Phe Ser Thr Thr Gly Met Leu His Gly Ile  
 325 330 335  
 Gly Lys Phe Ile Val Glu Ile Ile Cys Cys Arg Phe Arg Leu Gly Ser  
 340 345 350  
 Tyr Lys Pro Val Asn Ser Val Pro Phe Glu Asp Gly His Thr Asp Asn  
 355 360 365  
 His Leu Pro Leu Leu Glu Asn Asn Thr His  
 370 375

&lt;210&gt; 257

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 257

Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu  
 5 10 15  
 Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys  
 20 25 30  
 Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu  
 35 40 45  
 Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala  
 50 55 60  
 Thr Met Lys Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys  
 65 70 75 80  
 Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg  
 85 90 95

Ser Pro

<210> 258

<211> 530

<212> DNA

<213> Homo sapiens

<400> 258

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gaattcggca cgagggctgg aggctgagat gcaggagctc gccatccagc tgcacaagcg 60
ctgcgaggag gtagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgccgt 120
ggtggagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180
gagacgtggg ccctggcccg ggatgctgcc ctgctcctgg accagctgcg agcctgtcaa 240
gctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300
gccgtcccc cagctgactc caagggtctg caagcgtccc tgcaggccat gagcctcccc 360
gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420
acccagagcc tggagaagct gcagggtgctg aacgggaaga agtggcgga gacctagcct 480
gcggggccgaa tctgacgttg ggtgattggt ccacctgaa gctgtgtgcc 530

```

<210> 259

<211> 349

<212> DNA

<213> Homo sapiens

<400> 259

```

gaattcggca cgaggccagt tcagtctgca agcgccagct cctctcatgg ccggcttacc 60
caccgccttg ccaatgcccc ggggcaaacc tcataccacc acttcagaa cactgatcat 120
gacaaccaac aatcaggtag gtggtcctct ggccaccttc ccgctggtgg tccctgggaa 180
cagcatccga gctgtgatat gcaactagagg agattgatgg tcctttgaat tagaagagta 240
actttttgag tatttggccca ttggtgtgtt gttctaggaa atcctctctt ttttgtggtg 300
ttgaggtccc ccatgtatag ttccagcagc gaggacactg tggttcttg 349

```

<210> 260

<211> 509

<212> DNA

<213> Homo sapiens

<400> 260

```

gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggcgaaacgtc 60
tgtgtaactt ggaggagggc agcccgggca gcggcaccta caccogccac ggctacatct 120
tttcgtcgct tgccggctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtg 180
ctgtagtgag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240
aggctctctag catcaattca cgctttgcca aagtacacat cctgtatgtg ggggccatgc 300
ctcttaagaa ctcttttcga ggaactatcc gcaaggaaga tgtccgagca actgaaaaag 360
acaaggttga aatttataag agtttccgcc caggtgacat tgtcttgccc aaagtgatct 420
ccttaggtga tgcacagtcc aactacctgc taaccaccgc cgagaacgag ctgggagtg 480
tggtagccca cagttagtca ggtatccag

```

<210> 261

<211> 510

<212> DNA

<213> Homo sapiens

<400> 261

```

gaattcggca cgaggtgcat gttgtgtgag gatcccgggg ccgccgcgtc gtcggggccc 60
cgccatggcc gtcacccatca cgctcaaaac gctgcagcag cagaccttca agatccgcat 120
ggagcctgac gagacggtga aggtgctaaa ggagaagata gaagctgaga agggctcgtga 180
tgccctcccc gtggctggac agaaactcat ctatgccggc aagatcttga gtgacgatgt 240
ccctatcagg gactatcgca tcgatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300
caaagccggc cagggtagct cagcaccccc agaggcctca cccacagctg cccagagtc 360
ctctacatcc ttcccgctg cccccacctc aggcattgct catccccac ctgccgccag 420
agaggacaag agcccatcag aggaatccgc cccacgacg tccccagagt ctgtgtcagg 480
ctcttggtcc ctcttcagg aacaaccggg

```

<210> 262

<211> 432

<212> DNA

<213> Homo sapiens

<400> 262

```

gacatgtaat tcttatttat ttttcaccct caacaaggaa gaaagggtctc tccctcaatt 60
ctgctcttcc aataacttgag gataggcacc cctaaccctc cttoctccag ggaggcctca 120
gcatcagtggt ctgtggacgt agtctctgaa gagtgttca gctgatggg aaggagaaac 180
tcaagacaga gatcctccta gggatggcgt cactttcctg ccaactttct cgttgcctct 240
ccttgaaagc agaagaagt ccagccctca gcttcctgca gatcttgggc tcctagggcc 300
ttgtacaagt ccatggccct ctggttccag tccaggacgg ccaggcggaa ttgggagcag 360
cccttatcca aggccacctc agccaccttt ttgattattt tggaaccaat cccttgacct 420
cgatattccg gc

```

<210> 263

<211> 614

<212> DNA

<213> Homo sapiens

<400> 263

```

gaattcggca cgaggcgcag agttgtcgt actggagaag tccctgggac tgagtaaggg 60
gaataaatac agtgctcagg gcgagcgaca gattccagtt ctccagacaa acaatgggtcc 120
aagtctaaca ggattgacta ctatagcagc tcatctagtc aagcaagcca acaaagaata 180
tttgctgggg agtactgcag aagaaaaagc aatcgttcag cagtgggttag aatacagggt 240
cactcaagta gatgggcact ccagtaaaaa tgacatccac aactgttga aggatcttaa 300
ttcatatctt gaagataaag tctaccttac aggtataac ttacattag cagatatact 360
attgtactat ggacttcctc gctttatagt tgacctgaca gttcaagaaa aggagaaata 420
tcttaattgta tctcgtcgtt tttgtcacat tcagcattat ccaggcatca ggcaacatct 480
gtctagtgtt ggtcttcctc aagaacagac tatatactaa ttccctaga aagctgtcca 540
tgccatacag aagatctatt aaaaaatgtt ttaaaatgga aaatgtactc ttagaaccac 600
aggacttaat ggta

```

<210> 264

<211> 336

<212> DNA

<213> Homo sapiens

<400> 264

```

gaattcggca cgaggggcac aacagagccg ctccccctctc ctgcgcccgc caccgggacg 60
gagagcgcgc gccggtgcat ttccggcgac acctcgcagt cattcctgcg gcttgccgcg 120
ccttgtagac agccggggcc ttctgagaaa cgggtgcaggc ctggggtagt ctctgtctg 180
gacagagaag agaaaaatgc aggacactgg ctcaagagtg cctttgcatt ggtttggctt 240
tggctacca gcactggttg cttctggtgg gaatatttgc tattgaaaag caagcaagcg 300

```

336

<211> 487

<213> Homo sapiens

gaattcggca	cgaggtgact	gtgggaaact	cggaaacaag	ctcacatctt	cctgtgggaa	60
accttctagc	aacaggatga	gtctgcagtg	gactgcagtt	gccaccttc	tctatgcgga	120
ggtctttgtt	gtgttgcttc	tctgcattcc	cttcatttct	cctaaaagat	ggcagaagat	180
tttcaagtcc	cggtcgttg	agttgttagt	gtcctatggc	aacaccttct	ttgtggttct	240
cattgtcatc	cttgtgctgt	tggtcatcga	tgcctgctgc	gaaattcgga	agtatgatga	300
tgtgacggaa	aaggtgaacc	tccagaacaa	tcccggggcc	atggagcact	tccacatgaa	360
gcttttccgt	gccagagga	atctctacat	tgtctgcttt	tccttgctgc	tgtccttct	420
gcttagacgc	ctggtgactc	tcatttcgca	gcaggccacg	ctgctggcct	ccaatgaagc	480
ctttaaa						487

<211> 418

<213> Homo sapiens

gaattcggca	cgaggcgtg	acctgctagc	tgagcagcgc	ttcccgggcc	gcgtgctgcc	60
ctcggacttg	gacctgctgt	tgcacatgaa	caacgcgcgc	tacctgcgcg	aggccgactt	120
tgcgcgcgtc	gcgcacctga	cccgctgcgg	ggtgctcggg	gcgctgaggg	agttgcgggc	180
gcacacggtg	ctggcggcct	cgtgcgcgcg	ccaccgcgcg	tcgctgcgcc	tgttgagacc	240
cttcgaggtg	cgcacccgcc	tgtgggctg	ggacgaccgc	gcgttctacc	tggaggcgcg	300
ctttgtcagc	ctgcgggaag	gtttcgtgtg	cgcgctgctg	cgcttccggc	agcaactgct	360
gggcacctca	cccgagcgcg	tcgtgcagca	cctgtgccaa	cgcaaggtag	aacccccc	418

<211> 418

<213> Homo sapiens

<221> misc feature

<223> n = A, T, C or G

gaattcggca	cgaggtctggc	tcccacccgt	gagttggctc	aacagattga	ggaagagacc	60
atcaagtttg	ggaaaccgct	aggtatccgc	actgtggctg	tcattggtgg	catctccaga	120
gaagaccagg	gcttcaggct	gcgcatgggt	tgtgagattg	tgattgctcc	cctgggcgtt	180
tgattgatgt	gctggaaaac	cgcgtnccttg	tgcttgacct	gctgtacctt	tgtggttctg	240
gatgaggcag	ataggatgat	tgacatgggc	tttgagccag	atgtccagaa	gatcctggag	300
cacatgcctt	gtcagcaacc	agaagcccaa	acacggatga	agcttgagga	cccctgagaa	360
aaatgcttgg	ccaacttttg	agtcgggaaa	acattaagta	cccgcacaaa	caqtcatc	418

<211> 266

<212> DNA

<213> Homo sapiens

<400> 268

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gaattcggca cgagggcttc tcaactgagt cctactttta tgtcctgcct gtggtgagca 60
caaatgttga gcacatcaat ccccatTTTT tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttcctattca accttt                                     266
```

<210> 269

<211> 235

<212> DNA

<213> Homo sapiens

<400> 269

```
gaattcggca cgagggctcc tgcagccttt tcgctgggac tgcgcgacac cgccccccga 60
ccgggtgccc gctgtgtgac aggcgggtg ctgggcacgg tcccgagag gccctataag 120
gactgccagg caataatgaa ggttctttta ctgaaggatg cgaaggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc      235
```

<210> 270

<211> 386

<212> DNA

<213> Homo sapiens

<400> 270

```
gaattcggca cgaggggttc tcgcggggcc ccgggtgctg gtcaccgggg caggcaaagg 60
tataggggcg ggcacggtcc aggcgctgca cgcgacgggc gcgcgggtgg tggtgtgag 120
ccggactcag gcggatcttg acagccttgt ccgcgagtgc ccggggatag aaccctgtgt 180
cgtggacctg ggtgactggg aggccaccga gcgggcgctt gggcagcgtg ggccccgttg 240
acctgctggt gaacaacgcc cgtgtgcgcc ctgctgcagc ccttcttgga ggtcaccaag 300
gaggcctttg acagatcctt tgaggtgaac ctgcgtgcgg catccagtgt cacagattgt 360
ggcaggggct taatacccgg gagtcc                                     386
```

<210> 271

<211> 406

<212> DNA

<213> Homo sapiens

<400> 271

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gaattcggca cgaggggctg ctggctggct aagtccctcc cgctcccggc tctgcctca 60
ctaggagcgg ctctcggtgc agcgggacag ggcgaagcgg cctgcgcccc cggagcgcg 120
gacactgccc ggaagggacc gccacccttg cccctcagc tgccactcgt tgatttcag 180
cggcctccgc gcgcgcacga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240
gtccggaccg ccaccgccgt cgggttcctc cgggagttag gcggccgagg gagccggggc 300
cgccgcgcgg gcttctagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg 360
aagcagattc tcgggggtgat cgacaagaaa cttcggaacc tggaga                                     406
```

<210> 272

<211> 365

<212> DNA

<213> Homo sapiens

<400> 272

```

gaattcggca cgaggctcgc ctcaactagga ggggctctcg gtgcagcggg acagggcgaa 60
gcggcctgcg cccacggagc gcgcgacact gcccgggaagg gaccgccacc cttgccccct 120
cagctgcccc ctcgtgattt ccagcggcct ccgcgcgcgc acgatgccct cggccaccag 180
ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcgggtt cctccgggag 240
tgaggcggcc gcgggagccg gggcgcgcgc ccggcttcta gcaccccgca accggcaccg 300
gcgctgtcca gaccgaggcc atgaagcaga ttctcggggg gatcgacaag aaacttcgga 360
acctg 365

```

<210> 273

<211> 376

<212> DNA

<213> Homo sapiens

<400> 273

```

gaattcggca cgaggctttg gccactcaga gccccggggc cgcggtcgtc gtacgcctga 60
aggcgggtcg tgccggcggc cgctctagtc tccgcctccg ctccaggccg tcctccgggg 120
cttctcaatg gtttcccggg ggctctctca tgggtttccc ggcggccctt gcgccgacgc 180
caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgcggc 240
gggggaatag gtcgagggc ggggagcagt gacaattgct aggcggagac agtgcaggga 300
agagagacct tataaaggat caggactggc gggaggtatt taactgaaag gaatatctgc 360
ttcactgttg caacca 376

```

<210> 274

<211> 385

<212> DNA

<213> Homo sapiens

<400> 274

```

gaattcggca cgaggcttgg gtccgtcgtc gcttcgggtg cctgtcggg cttcccagca 60
gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120
gatgagcccc ttgaaatacc atcgggaagc gatgggacgg tgctgctctc cacggttaca 180
gcccagtttc caggggcgtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240
ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctggtg 300
tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360
gcagtgaaag tgaaaagagc agtcc 385

```

<210> 275

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(395)

<223> n = A,T,C or G

<400> 275

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gaattcggca cgagggggag cggagagcgg accccagaga gccctgagca gccccaccgc 60
cgccgcgggc ctagttacca tcacaccccg ggaggagccg cagctgccgc agccggcccc 120
agtcaccatc accgcaacca tgagcagcga ggccgagacc cagcagccgc ccgccgcccc 180
ccccgcggcc ccgcacctca gcgccgccga caccaagccc ggcactacgg gcagcggcgc 240
aaggagcggg gggccgggcg gcctcacatt cgccggggcc ttgccggcgg ggacaaagaa 300
agggcattcg caacgaaggg ttttgggaaa caagtaaaat gggttcaatt gtaagggaac 360
cggatttttg ttttnattca accagggaaa ttgac 395

```



<210> 276  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 276  
 gaattcggca cgagggcagg ggtggtcctg gctggcattg cctgagccgg cagtgatgaa 60  
 gtggggagct tgcccttgac aggtgggggc tggctggggc cttaatgtga aaagacagtg 120  
 gcaggcagct ggagtagagc gagcccagca gccctaaaag gctgccttca tggccatcta 180  
 gccccagttc agggcagcat ccatagccca caagccagcg tgggtggggc gggggtggtc 240  
 ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

<210> 277  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 277  
 gaattcggca cgagggccggt cggcctgggc aacctgcgct gaagatgccg ggaaaactcc 60  
 gtagtgacgc tggtttgaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120  
 aaaccgagga gaaagagaaa aaagagaagc caaatctga taagactgaa gagatagcag 180  
 aagaggaaga aactgttttc cccaaagcta aacaagttaa aaagaaagca gaggccttctg 240  
 aagttgacat gaattctcct aaatccaaaa aggcataaaa gaaagaggag ccatctcaaa 300  
 atgacatttc tcctaaaacc aaaagtgttg gaaagaaaaa ggagcccatt gaaaagaaaag 360  
 tggtttcttc taaaaccaa aaagtgacaa aaaatgagga gccttctgag gaagaaatag 420  
 atgctcctaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480  
 aaagcccaaa actgaagaat ggatttcctc atcctgaacc ggactgtaac cccagtgaag 540  
 ctgccagtga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaagg 600  
 cgctttctct atttt 615

<210> 278  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 278  
 gaattcggca cgaggagaaa gggaaaaaag gcgtaaagac agacatgaag caagtggggtt 60  
 tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agaggaggaa 120  
 aagaagtatg ggcggagctg ccattgcccc acccacttct ctggtagaga aagacaaaga 180  
 gttaccccgga gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240  
 cagccctttc ttccccagtg gtaccgaagg aaccaagaac agaccccgaga atcttccacc 300  
 cggaccctta gcaaac 316

<210> 279  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(393)  
 <223> n = A,T,C or G

<400> 279  
gaattcggca cgaggggtgaa accaacttat tgggctcaat cccatttggc cacaggatac 60  
tgtacgtatc ttcctttcca gagatttgat atcaccaga caccgccagc atacataaac 120  
gtgttaccag gtttgcccca gtacaccagc atatatacac ccttggccag cctttctcct 180  
gaatatcagc taccaagatc agtaccagtg gtgcggtcct ttgtagccaa tgacagagca 240  
gaaaaaaatg ctggctgcct attttgnggg gcattcattt tgaaatggct tgagaaatgg 300  
ttggctgggt caccagaat tggccttctt gaaaaccaca agaatccctt tggaagggg 360  
cttctttttg gggaaaataa tcttggtaaa aag 393

<210> 280

<211> 454

<212> DNA

<213> Homo sapiens

<400> 280  
gaattcggca cgaggcagca atgcggtaga tatgacgtaa acaaattata attaagctag 60  
tggtactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120  
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180  
atatgattaa attacttcca gtatttagcag atgcttattt aaatacttgc ttgttctttc 240  
tgcaattcca catagaatta aggcgaatag ttaaaagaaa atttaaaaag taactttttc 300  
agcattttta tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaagtact 360  
aaccagactt gaacaaaatc caacttgcaa aaacgatgca atataaatac caatcaccaa 420  
taataggtag tctcactttt aaaaacctgt gtct 454

<210> 281

<211> 613

<212> DNA

<213> Homo sapiens

<400> 281  
gaattcggca cgaggtgcgc tcttcgttgc ccagtttccg ctcagtggc gcgtctccgc 60  
ccccaccca ccagtcgccg tgcatctctg gccgggctct aggcgccatg gctccccgcg 120  
ggaggaagcg taaggctgag gccgcggtgg tcgccgtagc cgagaagcga gagaagctgg 180  
cgaacggcgg ggagggaaat gaggagcgca ccgttggtat cgagcattgc actagctgac 240  
gcgtctatgg gcgcaacgcc gcggccctga gccaggcgt gcgcctggag gccccagagc 300  
ttccagtaaa ggtgaacccg acgaagcccc ggaggggcag cttcgagggtg acgtgtctgc 360  
gcccgagcgg cagcagtgcg gagctctgga ctgggattaa gaagggggcc ccacgcaaac 420  
tcaaattccc tgagcctcaa gaggtggtgg aagagttgaa gaagtacctg tcgtagggag 480  
atttgggtag aagccctcat gctgagcttt gtgtccctgg tgatgttgga acattaatga 540  
tggaacatgg ccaaacttca gtcgatgatcc tgaagccatg gtttcttccc tgccagaaat 600  
gaaggttcat tat 613

<210> 282

<211> 313

<212> DNA

<213> Homo sapiens

<400> 282  
gaattcggca cgaggcgaga acgggcacgg ggagcagcag cctcaaccgc cggcgacgca 60  
gcagcaacag cccaacagc agcgcggggc cgccaaggag gccgcgggga agagcagcgg 120  
cccacctcg ctgttcgcgg tgacgtggc gccgcccggg gcgaggcagg gccagcagca 180  
ggcgggaggt aagaagaagg cggaaggcgg cggaggcggc ggctgccccg gggctccggc 240  
ggcgggggac ggcaaacag aacagaaagg cggagataaa aagaggggtg ttaaaagacc 300  
accacaagat cat 313

<210> 283  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 283  
 gaattcggca cgaggcctgg ccggggagac gagttgcatg tgttggttca gctggcgata 60  
 gcggcgggag cggagccggc ggggcctgtg cgaccgcctg ggtttgtgaa atggctgctg 120  
 acatttctga atccagcggg gctgactgca aaggagaccc aaggaacagt gccaagttag 180  
 atgccgatta ccacttcga gtcctttatt gtggagtctg ttcattacca acagagtact 240  
 gtgaatatat gcctgatgtt gctaaatgta gacaatgggt agagaagaat tttccaaatg 300  
 aatttgcaaa acttactgta gaaaattcac ccaaacaaga agctggaatt agtgagggtc 360  
 aaggaacagc aggggaagaa gaggagaaga aaaaacagaa gagagggtga aggggtcaaa 420  
 taaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt ccagagcaa 480  
 agaagaaata tgtgacaaga gtatgtggcc ttgcaacttt tgaaattgat cttaaagaag 540  
 cacaagatt ttttgc 557

<210> 284  
 <211> 627  
 <212> DNA  
 <213> Homo sapiens

<400> 284  
 gaattcggca cgaggctcac taggagcggc tctcgtgca gcgggacagg gcgaagcggc 60  
 ctgcgcccac ggagcgcgcg aactgcccg gaagggaccg ccacccttgc cccctcagct 120  
 gccactcgt gatttccagc ggctccgcg cgcgcacgat gccctcgcc accagccaca 180  
 gcgggagcgg cagcaagtgc tccggaccgc caccgcgctc gggttcctcc gggagttagg 240  
 cgcccgcggg agccggggcc gccgcgccg cttctcagca ccccgcaacc ggcaccggcg 300  
 ctgtccagac cgaggccatg aagcagattc tcgggtgat cgacaagaaa cttcgggaacc 360  
 tggagaagaa aaagggttaag cttgatgatt accaggaacg aatgaacaaa ggggaaaggc 420  
 ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttggagt 480  
 ttgcaaaaaga attacagagg agtttcatgg cactaagtca agatattcag aaaacaataa 540  
 agaagacagc acgtcgggag cagcttatga aaaaagaact gaacagaaac gtttaaaaaac 600  
 ttgtacttga actacagtat tgtttgg 627

<210> 285  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 285  
 gaattcggca cgagggcgag aacgaccccc ggaccgacca aagcccgcgc gccgctgcat 60  
 cccgcgtcca gcacctacgt cccgctgccg tcgccgccgc caccatgccc aagagaaagg 120  
 ctgaagggga tgctaaggga gataaagcaa aggtgaagga cgaaccacag agaagatccg 180  
 cgaggttgtc tgctaaacct gctcctccaa agccagagcc caagcctaaa aaggcccctg 240  
 caaagaaggc agagaaggta cccaaaggga aaaagggaaa agctgatgct ggcaaggagg 300  
 ggaataaccc tgcagaaaat ggagatgcc aacagacca ggcacagaaa gctgaagggtg 360  
 ctggagatgc caagtgaagt gtgtgcattt ttgataactg tgtacttctg gtgactgtac 420  
 agtttgaaat actatTTTTT atcaagtttt ataaaaatgc agaatttttg tttt 474

<210> 286  
 <211> 576  
 <212> DNA

<213> Homo sapiens

<400> 286

```
gaattcggca cgaggggaat ctgtgaagct cactactgga ccaaacaacg ctggagctca 60
aagtagttct tcatgtggga cttctggcct tccagtttct gcacagacag ccttggcaga 120
acaacagcca aaaagcatga aaagcccagc ttctccagag cctggtttct gtgctactct 180
ttgccctatg gtagaaattc cacctaaaga tataatggca gaattggagt cagaggatat 240
cttgatccct gaagaatctg taattcagga ggaaattgca gaagaggtag agactagtat 300
ctgtgaatgc caggatgaaa atcataagac aatacctgaa ttttctgagg aggctgaaa 360
tctaaccaat tctcatgaag aaccccaaat agcacctcct gaagataact tggaatcctg 420
tgttatgatg aatgatgttt tagaaaacttt gcctcatatt gaagttaaga tagaagggaa 480
gtcagaatca cccaggaag aaatgacagt tgttatcgat cagttagaag tctgtgactc 540
tcttattcct tccacttcat ctatgactca tgtcag 576
```

<210> 287

<211> 514

<212> DNA

<213> Homo sapiens

<400> 287

```
gaattcggca cgaggcagag aggtttgcca aagagcgcag gctgagaata tggagagact 60
atgtggctcc cacagctaatt ttggaccaa aggacaagca gtttggtgcc aaggtgatgc 120
aggtttctgaa tgctgatgcc attgttgtga agctgaactc aggcgattac aagacgattc 180
acctgtccag catccgacca ccgaggctgg agggggagaa caccaggat aagaacaaga 240
aactgcgtcc cctgtatgac attccttaca tgtttgaggc ccgggaattt cttcgaaaaa 300
agcttattgg gaagaaggtc aatgtgacgg tggactacat tagaccagcc agcccagcca 360
cagagacagt gcctgccttt tcagagcgta cctgtgccac tgtcaccatt ggaggaataa 420
acattgctga ggctcttgtc agcaaaggtc tagccacagt gatcagatac cggcaggatg 480
atgaccagag atcatcacac tacgatgaac tgct 514
```

<210> 288

<211> 456

<212> DNA

<213> Homo sapiens

<400> 288

```
gaattcggca cgagggggcg ggcaggcggg caggccggca ggcgggtgcg cggagggctg 60
gtgccccgca gcaggtgggc ggggtgcggt tggcggcggc ggctgggccc ggggctgccg 120
gctgcgctcg ggccgtgcgc ggcggccgtg cgggcacgcc atggacttca acatgaagaa 180
gctggcgctg gacgcgggca tcttcttcac ccgggcggtg cagttcacgg aggagaaatt 240
tggccaggct gagaagactg agcttgatgc ccactttgaa aaccttctgg cccgggcaga 300
cagcaccaag aactggacag agaagatctt gaggcagaca gaggtgctgc tgcagcccaa 360
cccagtgcc cgagtggagg agttcctgta tgagaagctg gacaggaagg tcccccaag 420
ggtcaccaac ggggagctgc tggctcagta catggc 456
```

<210> 289

<211> 262

<212> DNA

<213> Homo sapiens

<400> 289

```
gaattcggca cgaggcagaa gccctagct cctctgagcc tcatggggcc agaggaagca 60
gtagttcggg cggcaagaaa tgctacaagc tggagaatga gaagctgttc gaagagttcc 120
ttgaactttg taagatgcag acagcagacc accctgaggt ggtcccatto ctctataacc 180
```

```
<210> 290
<211> 205
<212> DNA
<213> Homo sapiens
```

```
<210> 291
<211> 483
<212> DNA
<213> Homo sapiens
```

```
<210> 292
<211> 562
<212> DNA
<213> Homo sapiens
```

```
<210> 293
<211> 645
<212> DNA
<213> Homo sapiens
```

<400> 293  
gaattcggca cgaggctgag agagagcaca gcctgggtggg ttctggggtc tacqgcctaa 60

```
<210> 294
<211> 521
<212> DNA
<213> Homo sapiens
```

```
<210> 295
<211> 375
<212> DNA
<213> Homo sapiens
```

```
<210> 296
<211> 628
<212> DNA
<213> Homo sapiens
```

<400> 296						
gaattcggca	cgaggaaaat	ggttcgctat	tcacttgacc	cggagaaccc	cacgaaatca	60
tgcaaatcaa	gaggttccaa	tcttcgtgtt	cactttaaga	acactcgtga	aactgctcag	120
gccatcaagg	gtatgcatat	acgaaaagcc	acgaagtatc	tgaaagatgt	cactttacag	180
aaacagtgtg	taccattccg	acgttacaa	ggtggagtgt	gcagggtgtc	gcaggccaag	240
caatggggct	ggacacaagg	tcggtggccc	aaaaagagtg	ctgaattttt	gctgcacatg	300
cttaaaaaacg	cagagagtaa	tgctgaactt	aagggttttag	atgtagattc	tctggtcatt	360
gagcatatcc	aagtgaacaa	agcacctaag	atgcgccgcc	ggacctacag	agctcatggt	420

```

cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480
cagattgttc ctaaaccaga agaggaggtt gcccagaaga aaaagatata ccagaagaaa 540
ctgaagaaac caaaacttat ggcacgggag taaattctca ttaaaataaa tgtaattaaa 600
aggaaaaaaa aaaaaaaaaa aactcgag                                     628

```

```

<210> 297
<211> 645
<212> DNA
<213> Homo sapiens

```

```

<400> 297
gaattcggca cgaggagaaa acgaagcagc gttggaaaat ggaattaaaa atgaggaaaa 60
cacagaacca ggtgctgaat cttctgagaa cgctgatgat cccaacaaag atacaagtga 120
aaacgcagat ggtcaaagtg atgagaacaa ggacgactat acaatcccag atgagtatag 180
aattggacca tatcagccca atgttcctgt tggtagatag tatgtgatac ctaaaacagg 240
gttttactgt aagctgtggt cactctttta tacaaatgaa gaagttgcaa agaatactca 300
ttgcagcagc cttctctcatt atcagaaatt aaagaaattt ctgaataaat tggcagaaga 360
acgcagacag aagaaggaaa cttaagatgt gcaaggagat ttaatgattt caaagaaaaat 420
aatgggttctt tgtttttaat gttaaccttt tttaaataca atactgatag ttagaagaaa 480
actattgtac tcttttgttt tagtggagaa ataatagatg tctgttcatg tgttaagtgt 540
tatagcaaaa aaaatacaca tatggttaag ttaatgaata gtttttgttt tatcagaatg 600
gcaacagaca gaagtacttt gtagagattg acttcctaag ctctt                                     645

```

```

<210> 298
<211> 625
<212> DNA
<213> Homo sapiens

```

```

<400> 298
gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60
cgttccccc tgccgcctt ctcccgccac cgccgcgcgc gccttcgcga ggccgtttcc 120
accgaggaaa aggaatcgta tcgtatgtcc gctatccaga acctccactc ttatcgaccc 180
tttgcctgat caagtaaggg tgcgtacgtg cttcctgctg gcaactgagga ttatatccat 240
ataagaattc aacagagaaa cggcaggaag accttacta ctgtccaagg gatcgctgat 300
gattacgata aaaagaaact agtgaaggcg tttaaagaaa agtttgacct caatggtact 360
gtaattgagc atccggaata tggagaagta attcagctac aggggtgacca acgcaagaac 420
atatgccagt tcctcgtaga gattggactg gctaaggacg atcagctgaa gggtcatggg 480
ttttaagtgc ttgtggctca ctgaagctta agtgaggatt tccttgcaat gagtagaatt 540
tcccttctct tccttgctac aggtttaaaa acctcacagc ttgtataatg taaccatttg 600
gggtccgctt ttaacttggc ctagt                                     625

```

```

<210> 299
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 299
gaattcggca cgaggagacc caggaggtca aggtctacagt gagccgtgat catgccactg 60
cactccagcc tgggtgacag agcgagaccc tgtctcttaa caacaaaacc catgagcggc 120
agccccccag tcctggatgg tggtaaagaa tcctcaagat caaaccacag cagtgtgtag 180
agcttggcct gattctaggg ctggggctgg agaaactgct agagatgatg ccgatagcca 240
gtgtgatccc cctgccttga tggcgaaggg cagagtgcag actggaaccc tcccctcccc 300
aaagattcag acctgtgggg ctgagtgggc tcatagtgtc cccaagtcct gagaggctgg 360
tgtctggctt cagcctccag cttctcaggt tctgatgcag tcagctgagt tccctgccta 420

```

```

ttctttgcaag cactaggagg aagggtggtg ggttgcctggg aacagcaccg agcgccctcc 480
ccaccagat tcacagagca cactccccgg ggggatactt taatccggag gccgtgacgc 540
ctgct 545

```

<210> 300

<211> 605

<212> DNA

<213> Homo sapiens

<400> 300

```

gaattgggca cgaggcgggc cgcagctttt cggttcacag cgggcaggga aagccgcggg 60
aagggtactc caggcgagag gcggacgcga gtcgtcgtgg caggaaaagt gactagctcc 120
ccttcgttgt cagccaggga cgagaacaca gccacgctcc caccggctg ccaacgatcc 180
ctcggcggcg atgtcggccg ccggtgcccg aggcctgcgg gccacctacc accggctcct 240
cgataaagtg gagctgatgc tgcccagaa attgaggcgg ttgtacaacc atccagcagg 300
tcccagaaca gtttttttct gggctccaat tatgaaatgg gggttggtgt gtgctggatt 360
ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgctg ttttgatggc 420
tacagggttt atttgggtcaa gatactcact tgtaattatt ccaaaaaatt ggagtctgtt 480
tgctgttaat ttctttgtgg gggcagcagg agcctctcag ctttttcgta tttggagata 540
taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaatcta 600
gatgt 605

```

<210> 301

<211> 364

<212> DNA

<213> Homo sapiens

<400> 301

```

gaattcggca cgaggcgcac acgagaacat gcctctcgca aaggatctcc ttcattccctc 60
tccagaagag gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattccta 120
cttcattggt gtgaaatgcc caggatgcta taaaatcacc acggtcttta gccatgcaca 180
aacggtagtt ttgtgtgttg gctgctccac tgtcctctgc cagcctacag gaggaaaagc 240
aaggcttaca gaaggatggt ccttcaggag gaagcagcac taaaagcact ctgagtcaag 300
atgagtggga aaccatctca ataaacacat tttggataaa aaaaaaaaaa aaaaaaaact 360
cgag 364

```

<210> 302

<211> 545

<212> DNA

<213> Homo sapiens

<400> 302

```

gaattccggc acgaggggac cccagagagc cctgagcagc cccacgcgcg ccgcccgcct 60
agttaccatc acaccccggg aggagccgca gctgcgcgag ccggccccag tcaccatcac 120
cgcaaccatg agcagcgagg ccgagaccca gcagccgccc gcgcgcccc ccgcccgcct 180
cgccctcagc gccgcccaga ccaagcccgg cactacgggc agcggcgag ggagcgggtg 240
ccggggcgga ctcacatcgg cggcgccctg ccggcggggac aagaaggta tcgcaacgaa 300
ggttttggga acagtaaaat ggttcaatgt aaggaacgga tatggtttca tcaacaggaa 360
tgacaccaag gaagatgtat ttgtacacca gactgccata aagaagaata accccaggaa 420
gtaccttcgc agtgtaggag atggagagac tgtggagttt gatgttgttg aaggagaaaa 480
gggtgcccgg gcagcaaagt ttacaggtcc tgggtggtgt ccagttcaag gcagtaaata 540
tgcag 545

```

<210> 303



```
<210> 306
<211> 504
<212> DNA
<213> Homo sapiens
```

<220>  
 <221> misc\_feature  
 <222> (1)...(504)  
 <223> n = A,T,C or G

<400> 306  
 gaattcggca cnaggccaaa acctgtttgg gaagcatatt acagaaatga tttcaagtac 60  
 cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa acaaaaacaa aaaaacaaaa 120  
 ccagaatcag gtaaaacagc tatgtgatta aaatatttta attcttcagc aattaccgg 180  
 ttttctaaat tgaatcatgc atctatttat aattctaatt attttgtaaa agaagacaaa 240  
 attatgaatc ttaagtattt gctccatctt tttctctgta atgggtggaga ggctgcccac 300  
 aattcatctc cacatggagc caagtttaat gtttctagtt cacattttgt acttctgtca 360  
 tgcttatttc aaactccctg agtgatgggt aagaaatcaa acattgcctc agtggatatca 420  
 agagaacttt ggtggtggtt tcttcagaat catgaagttc ttttgccaga taaatatttt 480  
 gatattattt tcctttttta tata 504

<210> 307  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 307  
 gaattcggca cgagggtttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgccca 60  
 gggaagacag ggcgacctgg aagtccaact acttccttaa gatcatccaa ctattggatg 120  
 attatccgaa atgtttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180  
 tccgcatgtc ccttcgcggg aaggctgtgg tgctgatggg caagaacacc atgatgcgca 240  
 aggccatccg agggcacctg gaaaaacaacc cagctctgga gaaactgctg cctcatatcc 300  
 gggggaatgt gggctttgtg ttcaccaagg aggacctac tgagatcagg gacatgttgc 360  
 tggccaataa ggtgccagct gctgccgtgc tggtgccatt gcccctatgt aagtcactgt 420  
 gccagcccag aacactggtc tcgggcccgc 449

<210> 308  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 308  
 gaattcggca cgagggttga ttatggcaag aagtccaagc tggagttctc catttaccca 60  
 gcaccccagg tttccacagc tgtagttgag ccctacaact ccatcctcac caccacacc 120  
 accctggagc actctgattg tgccttcatg gtagacaatg aggccatcta tgacatctgt 180  
 cgtagaaacc tcgatatcga gcgcccaccc tacactaacc ttaaccgcct tattagccag 240  
 attgtgtcct ccatcactgc ttccctgaga tttgatggag ccctgaatgt tgacctgaca 300  
 gaattccaga ccaacctggt gccctacccc cgcattccact tccctctggc cacatatgcc 360  
 cctgtcatct ctgctgagaa agcctaccat gaacagcttt ctgtagcaga gatcaccaat 420  
 gcttgctttg agccagccaa ccagatggtg aaatgtgacc ctgcgccatgg taaatacatg 480  
 gcttgctgcc tgttgtagcc tggtagcgtg gttcccaaag atgt 524

<210> 309  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 309  
 gaattcggca cgagggcttc tcaactgagt cctactttta tgtcctgcct gtggtgagca 60

```

caaatgttga gcacatcaat ccccatTTTT tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttcctattca gcctTTTTgc aatccttcca tctagaggag atgtatctta 300
taatatcttc aaaggcactc tgttgctaata agcagccttg atgaggtccc atatagctca 360
ttggaagcag agctagtctt ggaaactgaa aatgttgagc cagagtctgc ccattccttt 420
agctctgggt ccagctgtgg tctgggtgg aatggagtct gaccttgcc caccagggc 480
ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat 524

```

<210> 310

<211> 524

<212> DNA

<213> Homo sapiens

<400> 310

```

gaattcggca cgaggggaga ctacaaggat agggccagga gtaatggagt ccaaagagaa 60
acgagcagta aacagtctca gcatggaaaa tgccaaccaa gaaaatgaag aaaaggagca 120
agttgctaata aaaggggagc ccttggccct ccctttggat gctggtgaat actgtgtgcc 180
tagaggaaat cgtaggcgtt tccgcgttag gcagccatc ctgcagtata gatgggatat 240
gatgcatagg cttggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300
ggaggaggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360
ggcagtcagc actgaccccc ctcaccatga ccatcatgat gagttttgcc ttatgccctg 420
aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttacatg 480
ttcatgatgt gcccttggtt taaaccttta cctgtcactt gttt 524

```

<210> 311

<211> 523

<212> DNA

<213> Homo sapiens

<400> 311

```

gaattcggca cgaggcctcg tgccgtgcc cccgaggtat ggggggtcac tcgctgctcg 60
atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgccct ccctaggagc 120
cccggtctt cactggccga ggtgccacc ccgcagcatt ctgggagtg tagttttctt 180
ccttcagggtt cattcctggc tggccagtgc ccaagactgg cgagactacg attcccagac 240
gcccagcga gtcgccggtc acgtggccgc aaggacgtg ggccggtggg cgggggcccg 300
caggtgctcc gcagccgtct gtgccacca gagccggcgg gccgctaggt ccccgagac 360
cctgctatgg tgcgtgcggg cgccgtgggg gctcatctcc ccgcgtccgg cttggatatc 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accaggtttt aaacttcgcc 480
atgatcgtgt cttctgcact catgatatgg aaaggcttga tcg 523

```

<210> 312

<211> 524

<212> DNA

<213> Homo sapiens

<400> 312

```

gaattcggca cgaggggtgaa ggtgtgtgtc agcttttgcg tcaactcgagc cctgggcgct 60
gcttgctaaa gagccgagca cgcggtctg tcatcatgtc gcgttacggg cggtagcgag 120
gagaaaccaa ggtgtatgtt ggtaacctgg gaactggcgc tggcaaagga gagttagaaa 180
gggctttcag ttattatggt cctttaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtacga ggactggatg 300
gaaaggtgat ttgtggctcc cgagtggagg ttgaactatc gacaggcatg cctcggagat 360
cacgttttga tagaccacct gcccgacgtc cctttgatcc aatgataga tgctatgagt 420

```

```

gtggcgaaaa gggacattat gcttatgatt gtcatcgtta cagccggcga agaagaagca 480
ggtcacggtc tagatcacat tctcgatcca gaggaaggcg atac 524

```

<210> 313

<211> 523

<212> DNA

<213> Homo sapiens

<400> 313

```

gaattcggca cgaggggtaa caccagaata tttggcaaag ggagaaaaaa aaagcagcga 60
ggcttcgcct tccccctctc cctttttttt tctctctctt ccttctctct ccagccgccg 120
ccgaatcatg tcgatgagtc caaagcacac gactccgttc tcagtgtctg acatcttgag 180
tcccctggag gaaaagtaca agaaagtggg catggagggc ggcggcctcg gggctccgct 240
ggcggcgtag aggcagggcc aggcggcacc gccaacagcg gccatgcagc agcacgccgt 300
ggggcaccac ggcgccgtca ccgcgcgcta ccacatgacg gcggcggggg tgccccagct 360
ctcgcactcc gccgtggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420
gccgtaccag gacaccatga ggaacagcgc ctctggcccc ggatggtagc gcgccaaccc 480
agaccgcgcg ttccccgcca gttctttttt ttcaggatca ggc 523

```

<210> 314

<211> 525

<212> DNA

<213> Homo sapiens

<400> 314

```

gaattcggca cgagggaaaa ccagagatag agggaaagcc agagagtgaag ggagagccag 60
ggagtgaaac aagggtctgca ggaaagcgcc cagctgagga tgatgtaccc aggaaagcca 120
aaagaaaaac taataagggg ctgggtcatt acctcaagga gtataaagag gccatacatg 180
atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aaggtgcagg 240
atgagaagag aaaaagcaaa cagaaatttg gggcgttttt gtggatgcaa agaaatttac 300
aggacccttt ctaccctaga ggtccaaggg aattcagggg tggctgcagg gccccacgaa 360
gggacattga agacattcct tatgtgtagt gtccctggca ggcatttacc aggccatgtg 420
ctttaacgtt cggtaatact ttacttttag catccctcct gttgctagca gccttttgac 480
ctatctgcaa tgcagtgttc tcagtaggaa atgttcattt gttac 525

```

<210> 315

<211> 358

<212> DNA

<213> Homo sapiens

<400> 315

```

gaattcggca cgaggggggtg gtggagcgct gggcgggccag gctccctggc tggccggttt 60
gggcgctctgg gccgtgaagg tgggacctcc tgttcggggc cgcaagtttc cctctccagc 120
cgcccgccgt tcgtagcatg tccccagaa ctcggggagc gcaggcagga caggcttaga 180
gaagacgcgg tccccagcgc ttggggccac gacgtccac cccgctcctc tgtcgctgga 240
gaaccgccgg gccgagccac tgggagaagc aggcagagc cttccagggc ctccggcccc 300
tggacccgag gaggatgagc tggccttttc cctgaccaa gagcgcctcc tctccgcg 358

```

<210> 316

<211> 420

<212> DNA

<213> Homo sapiens

<400> 316

```

gaattcggca cgaggcggtc ottcgcacac tgtgattttg cctcctgcc cacgcagacc 60
tgcagcgggc aaagagctcc cgaggaagca cagcttgggt caggttcttg cctttcttaa 120
ttttagggac agctaccgga aggaggggaa caaggagttc tcttccgcag cccctttccc 180
cacgcccacc cccagtctcc agggaccctt gcctgcctcc taggctggaa gccatgggtc 240
cgaagtgtag ggcaaggggtg cctcaggacc ttttggtctt cagcctccct cagcccccag 300
gatctggggt aggtggccgt cctcctgctc ctcatgggaa gatgtctcag agccttcatg 360
acctcccctc cccaacccaa tgccaaagtg gacttgggag ctgcacaaag tcagcaggga 420

```

<210> 317

<211> 518

<212> DNA

<213> Homo sapiens

<400> 317

```

gaattcggca cgaggcggtc cggaggggtcg ttttaaaggc cccgcgcgtt gccgccccct 60
cggcccgcga tgctgctatc cgtgccgctg ctgctogggc tcctcggcct gcccgctgcc 120
gagcctgccc tctacttcaa ggagcagttt ctggaaggag acgggtggac ttcccgtggt 180
atcgaatcca aacacaagtc agattttggc aaattcggtc tcagttccgg caagttctac 240
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tgggtggtgca gttcacggtg 360
aaacatgagc agaacatcga ctgtgggggc ggctatgtga agctgtttcc taatagtttg 420
gaccagacag acatgcacgg agactcagaa tacaacatca tgtttgggtc cgacatctgt 480
ggcctgcacc aaaaagggtc atgtcatctt caactaca
518

```

<210> 318

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 318

```

aacaccaagg tggacaagag agttgagtc aaatatggtc ccccatgccc atcatgcca 60
gcacctgagt tcctgggggg accatcagtc ttctgttcc ccccaaaacc caaggacact 120
ctcatgatct cccgacccc tgaggtcacg tgcgtggtgg tggacgtgag ccaggaagac 180
cccgaggtcc agttcaactg gtacgtggat ggcgtggagg tgcataatgc caagacaaag 240
ccgcgggagg agcagttcaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac 300
caggactggc tgaacggcaa ggagtacaag tgcaagggtc ccaacaaagg cctcccgtcc 360
tccatcgaga aaacctattn caaagccaaa gggcagcccc g
401

```

<210> 319

<211> 401

<212> DNA

<213> Homo sapiens

<400> 319

```

accgtgtact attagccatg gtcaacccca ccgtgttctt cgacattgcc gtcgacggcg 60
agcccttggg ccgctctctc tttgagctgt ttgcagacaa ggtcccaaag acagcagaaa 120
attttcgtgc tctgagcact ggagagaaa gatttggtta taagggttcc tgctttcaca 180
gaattattcc agggtttatg tgtcagggtg gtgacttcac acgccataat ggcactggtg 240

```

```

gcaagtccat ctatggggag aaatttgaag atgagaactt catcctaaag catacgggtc 300
ctgcatcttg tccatggcaa atgctggacc caacacaaat gggtcccagt ttttcatctg 360
cactgccaag actgagtggg tggatggcaa gcatgtggtg t 401

```

<210> 320

<211> 471

<212> DNA

<213> Homo sapiens

<400> 320

```

tagagtccca caaaccccttg gcatgcctta atgtttgaga attccattct atttctcatt 60
aatctcttga aagcaaagat attttataaa tcttttttga ccagtgtttt agatggtagt 120
ggctgtggca gtgactttta attagccatc ctgaacccat catttaaaat atttattttt 180
gctttcagaa attttgaaat aagtaaggga aaaaaccaa ttatttacag atacacataa 240
ccaacccaaa ataaaagcaa aatactaaat taggcacaca gaaagactaa aagtaaattc 300
actaggaag acactcctca aagatagaat gttaaatttg tgaatccaga gtgctcaaac 360
cagaataacg cttgtcctta taccctaaag gacttgccaa gaaagataaa aagtatttta 420
ttatcccaga aagaatgcaa gggctctcat ttcagttggc ttataacacc a 471

```

<210> 321

<211> 471

<212> DNA

<213> Homo sapiens

<400> 321

```

attactcaac agatttggac acaacggaaa gacaacagtt gatatttcta cttggtgtga 60
gcagtttgca actttttgtt cagagcaact ggacggggcc ccctgttgac ttacaccctc 120
aggacttttt gtcactctgtt ttgttccagc aattcagtg ggttaaagga ctggatgcat 180
ttgttctgag cctgctcact ctagatgggt aatcaatcta cagcctgacc tcgaagccta 240
tactactggt attagcacgc attatcctag tgaatgtaag acataaactg acagctattc 300
agagcttgcc atggtggact ttgagatgtg tgaatattca tcagcatttg cttgaggaac 360
gtcacctct gctttttact cttgccgaaa actgtattga tcaagtgatg aaactacaga 420
atctgtttgt agatgattca ggtcgatatt tggctattca attccatctg g 471

```

<210> 322

<211> 601

<212> DNA

<213> Homo sapiens

<400> 322

```

tgaaggagca gttgccgcgc ttggcggcgc cccgagcagt tttogetgct gctacggctg 60
ttgccatgag gcgaggctag ggaggacctc acttccccgg ggtgtaataa tgttaactga 120
ggccagtcta tccatatggg gatggggaag ccttggcatt gtcccttttc tgataacctt 180
tggacccttt gtaatatattt atttgacatt ttatatcctc tgctttgtgg gtggggggtt 240
agtggttact ctctgtttg gaaaaacaaa ctcagagaag tacctagaac agtgtgaaca 300
ctcatttctt cctccaacat cacctggggg tcctaagtgc ttagaagaaa tgaaacggga 360
agccaggact attaagattg atagaagatt gacgggtgcc aatataattg atgaacctct 420
ccagcaagtt atccagtttt ccttgaggga ttatgtccag tattggtatt atacactaag 480
cgatgatgaa tcttttcttc ttgaaattag gcagactctt caaaacgcac tcattcagtt 540
tgctactagg tcaaaagaaa tagactggca acottatttt actacacgca ttgtagatga 600
c 601

```

<210> 323

<211> 601

<212> DNA  
<213> Homo sapiens

<400> 323

```

gatgaggtag cagaggetca acgggcagag tttagccctg cccagttctc tggtcctaag 60
aagatcaacc tgaaccactt gttgaatttc acttttgaac cccgtggcca gacgggtcac 120
tttgaaggca gtggacatgg tagctgggga aagaggaaca agtggggaca taagcctttt 180
aacaaggaac tctttttaca ggccaactgc caatttgtgg tgtctgaaga ccaagactac 240
acagctcatt ttgctgatcc tgatacattha gtttaactggg actttgtgga acaagtgcgc 300
atthttagcc atgaagtgcc atcttgccca atatgcctct atccacctac tgcagccaag 360
ataaccggtt gtggacacat cttctgctgg gcatgcatcc tgcactatct ttcactgagt 420
gagaagacgt ggagtaaatt tcccatctgt tacagttctg tgcataagaa ggatctcaag 480
agtgttgttg ccacagagtc acatcagtat gttgttggtg ataccattac gatgcagctg 540
atgaagaagg agaaaggggt ggtggtggct ttgcccacaa ccaaatggat gaatgtagac 600
c 601

```

<210> 324  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 324

```

catcttcttc ctttcgcggg gtcctccgta gttctggcac gagccaggcg tactgacagg 60
tggaccagcg gactgggtga gatggcgacg ctctctctga ccgtgaattc aggagaccct 120
ccgctaggag ctttgctggc agtagaacac gtgaaagacg atgtcagcat ttccgttgaa 180
gaagggaaag agaattattc tcatgtttct gaaaatgtga tattcacaga tgtgaattct 240
atacttctgt acttggttag agttgcaact acagctgggt tatatggctc taatctgatg 300
gaacatactg agattgatca cttggttgga gttcagtgtc acaaaattat cttcatgtga 360
ttcctttact tctacaatta atgaactcaa tcattgcctg tctctgagaa catacttagt 420
tggaaactcc ttgagtttag cagatttatg tgtttgggcc a 461

```

<210> 325  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 325

```

tcacttttga acccctgtggc cagacgggtc actttgaagg cagtggacat ggtagctggg 60
gaaagaggaa caagtgggga cataagcctt ttaacaagga actcttttta caggccaact 120
gccaatttgt ggtgtctgaa gaccaagact acacagctca ttttctgat cctgatacat 180
tagttaactg ggactttgtg gaacaagtgc gcattttag ccatgaagtg ccatcttgcc 240
caatatgcct ctatccacct actgcagcca agataaacccg ttgtggacac atcttctgct 300
gggcatgcat cctgcactat ctttactga gtgagaagac gtggagtaaa tgtcccatct 360
gttacagttc tgtgcataag aaggatctca agagtgttgt tgccacagag tcacatcagt 420
atgttgttgg tgataccatt acgatgcagc tgatgaagaa g 461

```

<210> 326  
<211> 451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(451)

<223> n = A,T,C or G

<400> 326

```
ctgtggagggc cagttctgga gctattgcag cctcggttgc ccggccgggg acccgagccg 60
aaaagtattc gtcagaatgt cgggcaaaga ccgaattgaa atctttccct cgcgaaatggc 120
acagaccatc atgaangctc gtttaaaggg agcacagaca ggtcgaaacc tcctgaagaa 180
aaaatctgat gccttaactc ttcgatttcg acagatccta aagaagataa tagagactaa 240
aatgttgatg ggcgaaagtga tgagagaagc tgccttttca ctagctgaag ccaagttcac 300
agcaggtgac ttcagcacta cagttatoca aaatgtcaat aaagcgcaag tgaagattcg 360
agcgaagaaa gataatgtag caggtgttac tttgccagta tttgaacatt accatgaag 420
aactgacagt tatgaactga ctggttttagc c 451
```

<210> 327

<211> 601

<212> DNA

<213> Homo sapiens

<400> 327

```
gaggggagggc cagcgaagcc gagtaaaacc gccgccggg agaagactga aggagcagtt 60
gccgccgttg gccgccggccc gagcagtttt cgtcgtcgt acggctgttg ccatgagggc 120
aggctaggga ggacctact tccccgggt gtaataatgt taactgaggc cagtctatcc 180
atatggggat ggggaagcct tggcattgtc ctttttctga taacctttgg accctttgta 240
atattttatt tgacatttta tatcctctgc tttgtgggtg ggggtttagt ggttactctc 300
ctgttttgaa aaacaaactc agagaagtac ctagaacagt gtgaacactc atttcttcct 360
ccaacatcac ctgggggttc taagtgccta gaagaaatga aacgggaagc caggactatt 420
aagattgata gaagattgac ggtgccaat ataattgat aacctctcca gcaagttatc 480
cagttttcct tgagggtatta tgtccagtat tgggtattata cactaagcga tgatgaatct 540
tttcttcttg aaattaggca gactcttcaa aacgcactca ttcagtttgc tactaggtca 600
a 601
```

<210> 328

<211> 601

<212> DNA

<213> Homo sapiens

<400> 328

```
ccggaatgat caccaagaca cacaaagtag accttgggt cccagagaag aaaaagaaga 60
agaaagtggg caaagaacca gagactcgat actcagtttt aaacaatgat gattactttg 120
ctgatgtttc tcctttaaga gctacatccc cctctaagag tgtggcccat gggcaggcac 180
ctgagatgcc tctagtgaag aaaaagaaga agaaaaagaa ggggtgtcagc accctttgcg 240
aggagcatgt agaacctgag accacgctgc ctgctagacg gacagagaag tcacccagcc 300
tcaggaagca ggtgtttggc cacttgaggt tcctcagtg ggaaaagaaa aataagaagt 360
cacctctagc catgtcccat gcctctgggg tgaaaacct cccagaccct agacagggtg 420
aggaggaaac cagagttggc aagaagctca aaaaacacaa gaaggaaaaa aagggggccc 480
aggaccccac agccttctcg gtccaggacc cttggtttctg tgaggccagg gaggccaggg 540
atgttgggga cacttgctca gtggggaaga aggatgagga acaggcagcc ttggggcaga 600
a 601
```

<210> 329

<211> 501

<212> DNA

<213> Homo sapiens

<400> 329



```

agcagctttc gctccaagct gcatcttgta gacctcgctg gatcagaaag acagaagaaa 60
accaaggctg aaggggatcg tctaaaagag ggtattaata ttaaccgagg cctcctatgc 120
ttgggaaatg taatcagtgc tcttgagat gacaaaaagg gtggctttgt gccctacaga 180
gattccaagt tgactcgact gcttcaagat tctctaggag gtaatagcca tactcttatg 240
atagcctgtg tgagtcctgc tgactccaat cttagaggaaa cattaaatac ccttcgctat 300
gctgacagag caagaaaaat caagaacaaa cctattgtta atattgatcc ccagacagct 360
gaacttaatc atctaaagca acaggtagaa cagctacaag tcttggtgct acaggcccat 420
ggaggtaccc tgcctggatc tataactgtg gaaccatcag agaactctaca atccctgatg 480
gagaagaatc agtccttggg a 501

```

<210> 330

<211> 451

<212> DNA

<213> Homo sapiens

<400> 330

```

cgcgaggcgc gcgccatgga acagcgggta gctgagtttc gggcggcgcg gaaacgggcg 60
ggtctggcgcg cccaaccccc tgctgccagt caggcgcgcac aaaccccgag agagaaggcg 120
gaagcagcag cgactctaaa ggcagcccca ggctggctaa agcgggttctt ggtatggaaa 180
cctaggccccg cgagtgcctg gccccagccc ggctagtttc aggaagcggc tcagccccag 240
ggcagcacat cagagacacc atggaacaca gccattcttc tgccgtcgtg ctgggaccag 300
tctttctctga ccaatatcac cttcttgaag gttcttctct ggttggtcct gctgggactg 360
tttgtggaac tggaatttgg cctgcatatt ttgtcctgtc cttgttctat tggatgtacg 420
tcgggacacg aggccttgaa gagaagaaaag a 451

```

<210> 331

<211> 331

<212> DNA

<213> Homo sapiens

<400> 331

```

cgttggtcct gtgcggtcac ttagccaaga tgctgagga aaccagacc caagaccaac 60
cgatggagga ggaggaggtt gagacgttcg cctttcaggc agaaattgcc cagttgatgt 120
cattgatcat caatactttc tactcgaaca aagagatctt tctgagagag ctcatctcaa 180
attcatcaga tgcattggac aaaatcccgt atgaaagctt ggacagaatc caataaatta 240
aaacttcttg ggaaaagaag cttgcattat taacccttta taccgaacca aaccaaagaa 300
tccgaaactt cttcacttat ttggtgggga a 331

```

<210> 332

<211> 401

<212> DNA

<213> Homo sapiens

<400> 332

```

tccttcttga tcctgaactg ggttaggtgc cgctggtgct gctcgtgttg aatctagaac 60
cgtagccaga catgggactg gaggacgagc aaaagatgct taccgaatcc ggagatcctg 120
aggaggagga agaggaagag gaggaattag tggatccctt aacaacagtg agagagcaat 180
gcgagcagtt ggagaaatgt gtaaaggccc gggagcggct agagctctgt gatgagcgtg 240
tatectctcg atcacatata gaagaggatt gcacggagga gctctttgac ttcttgcattg 300
cgagggacca ttgctgtggc cacaaactct ttaacaactt gaaataaatg tgtggactta 360
attcacccca gtcttcatca tctgggcatc agaataattc c 401

```

<210> 333

<211> 331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

```

gatccctgca gaggcctcat ccccgacag cgagccagtc ctagagaagg atgacctcat 60
ggacatggat gcctctcagc agaattttatt tgacaacaag tttgatgaca tctttggcag 120
ttcattcagc agtgatccct tcaattttcaa cagtcaaaat ggtgtgaaca aggatgagaa 180
ggaccactta attgagcgac tatacagaga gatcagtgga ttgaaggcac agctagaaaa 240
catgaagact gagagccagc gggttgtgct gcagctgaag ggccacgtca gcgagctgga 300
agcagatctg gccgagcagc agcacctgct g

```

&lt;210&gt; 334

&lt;211&gt; 551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

```

agcgggactg gctgggtcgg ctgggctgct ggtgcgagga gccgcggggc tgtgctcggc 60
ggccaagggg acagcgctg ggtggccgag gatgctgcgg ggcggtagct ccggcgcccc 120
tagctggtga ctgctgcgcc gtgcctcaca cagccgaggc gggctcggcg cacagtcgct 180
gctccgcgcg cgcgcccggc ggcgctccag gtgctgacag cgcgagagag cgcggccctc 240
aggagcaagg cgaatgtatg acaacatgtc cacaatggtg tacataaagg aagacaagtt 300
ggagaagctt acacaggatg aaattatttc taagacaaag caagtaattc aggggctgga 360
agctttgaag aatgagcaca attccatttt acaaagtttg ctggagacac tgaagtgttt 420
gaagaaagat gatgaaagta atttggtgga ggagaaatca aacatgatcc cggaagtcac 480
tgagatggtt ggagctcggc ctgagtgagg cacaggttat gatggctttg tcaaatacc 540
tgaatgcttg t

```

&lt;210&gt; 335

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 335

```

caggcgcccg agcgggactg gctgggtcgg ctgggctgct ggtgcgagga gccgcggggc 60
tgtgctcggc ggccaagggg acagcgctg ggtggccgag gatgctgcgg ggcggtagct 120
ccggcgcccc tagctggtga ctgctgcgcc gtgcctcaca cagccgaggc gggctcggcg 180
cacagtcgct gctccgcgcg cgcgcccggc ggcgctccag gtgctgacag cgcgagagag 240
cgcggccctc aggagcaagg cgaatgtatg acaacatgtc cacaatggtg tacataaagg 300
aagacaagtt ggagaagctt acacaggatg aaattatttc taagacaaag caagtaattc 360
aggggctgga agctttgaag aatgagcaca attccatttt acaaagtttg ctggagacac 420
tgaagtgttt gaagaaagat gatgaaagta atttggtgga ggagaaatca aacatgatcc 480
ggaagtcact ggagatgttg g

```

&lt;210&gt; 336

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

```

cctcggcgcc ggcgcggtg cttacagcct gagaagagcg tctcgcccg gagcggcgcc 60
ggccatcgag acccaccaa ggcgctccc cctcggcctc ccagcgctcc caagccgcag 120
cggccgcgcc cttcagcta gctcgtcgc tcgctctgct tcctgctgc cggctgcgcc 180
atggcgttgg cgttggcggc gctggcgcg gtcgagccgg cctcggcgag ccggtaccag 240

```

```

cagttgcaga atgaagaaga gtctggagaa cctgaacagg ctgcaggtga tgctcctcca 300
ccttacagca gcatttctgc agagagcgca gcatattttg actacaagga tgagtctggg 360
tttccaaagc ccccatctta caatgtagct acaacaactgc ccagttatga tgaagcggag 420
aggaccaagg ctgaagctac tatccctttg gttcctggga gagatgagga ttttgtgggt 480
cgggatgatt ttgatgatgc tgaccagctg aggataggaa a 521

```

<210> 337

<211> 521

<212> DNA

<213> Homo sapiens

<400> 337

```

aaaggaggaa aatacacgga agagaattgc tgtcctggct gaggccagag agataactga 60
gggtcccaga caaggatcaa gagaacggga ttggcctcca gaggcagagg ttccaaatgg 120
gagtgggctt cctcctagaa agactttctg gaggagaccc ccctactgtg taacagagga 180
ggactttggg attaagaaaa gcattccagg aagccgacag tgtcagcaaa cgtggagggtg 240
agatccttca aagtgagtgg tgtggagggt tccagaattt tctgagcctg aagggaaggt 300
tggagagcag accctgccct ttggaggctt gacttagccc tgagggcacc ctgtagccag 360
ggtgggcaga tgccaatatg gtagagacga agactgagta gggagccagc cacagtgcct 420
gtggtctcag gcagggagtg aagaccagag tggagcaggc tagaaacctg ggaaggaagc 480
aggttcccca gtataagccc atgatgtgtg aagaatgagc c 521

```

<210> 338

<211> 581

<212> DNA

<213> Homo sapiens

<400> 338

```

atactgcttg cttggagatg tcctcggaga ccattcttgc tatgacaagg cctgggagtt 60
gtcccggtag cgcagtgtc gtgctcagcg ctccaaagcc ctcttctatc ttcggaacaa 120
ggagtttcaa gagtgtgtag agtgcttcga acgctcgggt aagattaatc ccattgcagct 180
cggggtgtgg ttttctctcg gttgtgccta tttggccttg gaagactatc aaggttcagc 240
aaaggcattt cagcgtgtg tgactctaga acccgataat gctgaagctt ggaacaattt 300
gtcaacttcc tatatccgat taaaacaaaa agtaaaagct tttagaactt tacaagaagc 360
tctcaagtgt aactatgaac actggcagat ttgggaaaac tacatcctca ccagcactga 420
cgttggggaa ttttcagaag ccattaaagc ttatcacagg ctcttggact tacgtgacaa 480
atacaaagat gttcaggtcc ttaaaattct agtcagggca gtgattgatg ggatgactga 540
tcgaagtgga gatgttgcaa ctggcctcaa aggaaagctg c 581

```

<210> 339

<211> 581

<212> DNA

<213> Homo sapiens

<400> 339

```

aagaagaaga agctcgcggt cgtgaagaag cagagagggt ccggcaggaa cgagagaagc 60
atttccagag agaagagcaa gagcgcttgg agagaaagaa gcgacttgag gagattatga 120
aaagaaccag gagaacagaa gctacagata agaaaaccag tgatcagaga aacggtgata 180
tagccaaggg agctctcact ggaggaaacag aggtgtctgc acttccatgt acaacaaacg 240
ctccgggaaa tggaaagcca gttggcagcc cacatgtggt tacctcacac cagtcaaaag 300
aaaaaaaaaa gcgtgatgga atagctattg gatcagggtta caaaaaacia tttttaaaaa 360
taagctaaca tctaagaaac atcatthttgc ctatactgcc tccccaaaaa tcctgttttt 420
actcagtga cactaagcc cactcagaaa tgttctggat tgtcattttc tccatccttt 480
agcaccttct tattttgggg ggagctctga agccttgcaa gaagtgggag agaaaaggac 540

```

cagggtgtgac agaagggacg attttaagtta ttacaataaa c

581

<210> 340

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(571)

<223> n = A,T,C or G

<400> 340

```

ggtggcaaat tcaagtcctg ttaaccccggt ggtgttcttt gatgtcagta ttggcgggtca 60
ggaagttggc cgcatgaaga tgcagctctt tgcagacgtt gtgcctaaga cggccgagaa 120
ctttaggcag ttctgcaccg gagaattcag gaaagatggg gttccaatag gatacaaagg 180
aagcaccttc cacagggtca taaaggattt catgattcag ggtggagatt ttgttaatgg 240
agatggtact ggagtcgcca gtatttaccg ggggccattt gcagatgaaa attttaaact 300
tagacactca gctccaggcc tgctttccat ggcgacagt ggtccaagta caaatggctg 360
tcagttcttt atcacctgct ctaagtgcga ttggctggat gggaagcatg tgggtgttgg 420
aaaaatcatc gatggacttc tagtgatgag aaagattgag aatgttccca caggccccaa 480
caataagccc aagctacctg tggatgatctc cagtgtgggg agatgtagtc cagacaaaga 540
ctgaatcagt atacttgctc gacttcaagg n 571

```

<210> 341

<211> 581

<212> DNA

<213> Homo sapiens

<400> 341

```

taatgagacc aaagtttgca agggcaggac gagcccggtc taacagagaa agtgtttgtt 60
cctcaatttg gtttttagact gtcttgctct atggggggaga aaagatctgc ctttgggaga 120
ggtggccaact ttatagatct attaataaaa gaactggcag gcttacagtt cttgccaatg 180
aggaaacttg aatgagagaa gccagggtca accttggcca acagactgga gcccatcacc 240
ctaacttcac cccgcttctc cttacccaac cgtcaaaggc taggcagcac ccaccagca 300
gottccacct ggctgaagcc tgcacctgct tcagaccaag ggtagatgg aaatttggca 360
tggaagagaga gggctcacct gtgggcagga tagactctat ccaagaagga gaactgaaaa 420
atgaaaacct atgagacaag gggatgacct gaagcaggca ggagaaaggg ctggaggagg 480
aggcactggg gaatttttcc tggatgaatac tgaagtact agatgttttg tcttgcaaaa 540
ctcaagggaa aactctcaaa ctctaattgt tggcctattc t 581

```

<210> 342

<211> 451

<212> DNA

<213> Homo sapiens

<400> 342

```

gcagaccaga cttcgctcgt actcgtgcgc ctgccttcgc ttttcctccg caaccatgtc 60
tgacaaaccc gatattggct agatcgagaa attcgataag tcgaaactga agaagacaga 120
gacgcaagag aaaaatccac tgccttccaa agaaacgatt gaacaggaga agcaagcagg 180
cgaatcgtaa tgaggcgtgc gccgccata tgcactgtac attccacaag cattgccttc 240
ttattttact tcttttagct gtttaacttt gtaagatgca aagaggttgg atcaagttta 300
aatgactgtg ctgccccctt cacatcaaag aactactgac aacgaagccg cgctgcctt 360
tccatctgt ctatctatct ggctggcagg gaaggaaaga acttgcatg ttggtgaagg 420

```

451

<211> 601

<212> DNA

<213> Homo sapiens

<400> 343

tgacctcatg	gacatggatg	cctctcagca	gaattttattt	gacaacaagt	ttgatgacat	60
ctttggcagt	tcatttcagca	gtgatccctt	caattttcaac	agtcaaaatg	gtgtgaacaa	120
ggatgagaag	gaccacttaa	ttgagcgact	atacagagag	atcagtggat	tgaaggcaca	180
gctagaaaac	atgaagactg	agagccagcg	ggttgtgctg	cagctgaagg	gccacgtcag	240
cgagctggaa	gcagatctgg	ccgagcagca	gcacctgcgg	cagcaggcgg	ccgacgactg	300
tgaattcctg	cgggcagaac	tggacgagct	caggaggcag	cgggaggaca	ccgagaaggc	360
tcagcggagc	ctgtctgaga	tagaaaggaa	agctcaagcc	aatgaacagc	gatatagcaa	420
gctaaaggag	aagtacagcg	agctggttca	gaaccacgct	gacctgctgc	ggaagaatgc	480
agaggtgacc	aaacaggtgt	ccatggccag	acaagcccag	gtagatttgg	aacgagagaa	540
aaaagagctg	gagggattcg	ttggagccgc	tcagtgaccc	agggccagcg	ggaagactca	600
a						601

<210> 344

<211> 571

<212> DNA

<213> Homo sapiens

<400> 344

gcgacccggg	gagcgagcac	gtcgctccgc	accgctcttc	ctccagccgc	tgagccgtcc	60
cttctcgcca	tgtccagag	caggcacgc	gccgaggccc	cgccgtgga	gcgcgaggac	120
agtgggacct	tcagtttggg	gaagatgata	acagctaagc	cagggaaaac	accgattcag	180
gtattacacg	aatacggcat	gaagaccaag	aacatcccag	tttatgaatg	tgaaagatct	240
gatgtgcaaa	tacacgtgcc	cactttcacc	ttcagagtaa	ccgttggtga	cataacctgc	300
acagggtgaag	gtacaagtaa	gaagctggcg	aaacatagag	ctgcagaggc	tgccataaac	360
attttgaaag	ccaatgcaag	tatttgcttt	gcagttcctg	accccttaat	gcctgaccct	420
tccaagcaac	caaagaacca	gcttaatcct	attggttcat	tacaggaatt	ggctattcat	480
catggctgga	gacttcctga	atataccctt	tcacaggaag	gaggacctgc	tcataagaga	540
gaatatacta	caatttgcag	gctagaqtca	t			571

<210> 345

<211> 551

<212> DNA

<213> Homo sapiens

<400> 345

gacctggcgc	tttgtgcggc	tccaggcctc	cgagtggact	ccagaaagcc	tgaaaagcta	60
tcatggcagc	aaggcccaag	ctccactatc	ccaacggaag	aggccggatg	gagtcogtga	120
gatgggtttt	agctgccgcc	ggagtcgagt	ttgatgaaga	atttctggaa	acaaaagaac	180
agttgtacaa	gttgccaggat	ggtaaccacc	tgctgttcca	acaagtgcc	atggttgaaa	240
ttgacgggat	gaagttggta	cagacccgaa	gcattctcca	ctacatagca	gacaagcaca	300
atctcttttg	caagaacctc	aaggagagaa	ccctgtactg	tggccctct	cgagtgttgt	360
cacttgctcag	cttactgatg	ccttagctga	ttagcaacct	ctgtagcaca	ccacatttac	420
tttatgtctt	acatagttag	tgagatcagg	gaacaaaaac	ccaagaaggt	cacgaagacc	480
agttggaact	tcagtagaga	gagtcctgagt	aaaacaaaag	aatagggatt	cagatattga	540
atactatatc	t					551

<210> 346  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

```
<400> 346
tatgggaaac tgctctttat ttagaccttt gggacaaaat taacttttgt cacatattac 60
ttaaaaaaaaa atccagtttt acatatctt aaatagatag aactaaatga tcagagaatt 120
tcttctgtaa aaattggcca aattttatca aaaatctaac atacgatata atccaaatta 180
taaaaagact acttgggatc ataataattc aaatgtatga cagttataac tccatcttaa 240
caagngtgaa aagtacttgc tctcatgttg ctttgggtcca aaagagtaga gctaactcag 300
taacaggcaa ctaagtacct aatcttttgc caaaattaat ttanattgtg actggcagca 360
gaaatatcca taatgaacag ctctactata acaaagaata attaaagaat acttttcgtg 420
aacatatcac agtatcaaat acatctttat aagagaaaaa tatgaaggaa atgataaaat 480
agctatcaca aacaaaaaga a                                     501
```

<210> 347  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

```
<400> 347
gccccgggaga agactgaagg agcagttgcc gccgttgggc ggggcccagc cagttttcgc 60
tgctgctacg gctgttgcca tgaggcgagg ctaggaggga cctcacttcc ccggggtgta 120
ataatgttaa ctgaggccag tctatccata tggggatggg gaagccttgg cattgtcctt 180
tttctgataa cctttggacc ctttgaataa ttttatttga cattttatat cctctgcttt 240
gtgggtgggg gtttagtggt tactctcctg tttggaaaaa caaactcaga gaagtaccta 300
gaacagtgtg aacactcatt tcttcctcca acatcacctg gggttcctaa gtgcttagaa 360
gaaatgaaac gggaagccag gactattaag attgatagaa gattgacggg tgccaatata 420
attgatgaac ctctccagca agttatccag ttttccttga gggattatgt ccagtattgg 480
tattatacac taagcgatga tgaatctttt cttcttgaaa ttaggcagac tcttcaaaac 540
gcaactcattc agtttgctac taggtcaaaa gaaatagact ggcaacctta ttttactacc 600
cgcattgtag atgactttgg c                                     621
```

<210> 348  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

```
<400> 348
cgggcgccgg cgggcggcga tggcggcggc ggaggccggt ggcgacgacg cccgctgcgt 60
gcggtgtagc gccgagcggg cacaggcgct gctggccgac gtggacacgc tgctgttcga 120
ctgcgacggc gtgctgtggc gcggggagac cgcggtgctt ggcgcgcccg aggccttgcg 180
ggcgctgcga gcccgcgcca agcgcttggg cttcatcacc aacaacagca gcaagaccgg 240
cgctgcctac gccgagaagc tgcggcgccct gggtctcggc ggcccccgcg ggccccggcg 300
cagcctggag gtcttcggca cggcctaactg caccgcgctc tacctgcgcc agcgctggc 360
cgggcgcccc gcgccaagc cctacgtgct gggcagccca gccctggccg cggagctgga 420
gccgtggggc tcgccagcgt gggcggtggg cccgaccact gcagggcgag ggtcccggcg 480
actggctgca cgcccgttgg agccgactgc g                                     511
```

<400>	349						
gctcaggcgc	ctgcggctgg	gtgagcgcac	gcgaggcggc	gaggcggcag	cgtgtttcta	60	
ggtcgtggcg	tcgggcttcc	ggagctttgg	cggcagctag	gggaggatgg	cggagtcttc	120	
ggataagctc	tatcgagtcg	agtacgccaa	gagcggggcg	gcctcttgca	agaaatgcag	180	
cgagagcatc	cccaaggact	cgctccggat	ggccatcatg	gtgcagtcgc	ccatgtttga	240	
tggaaaagtc	ccacactggg	accacttctc	ctgcttctgg	aagggtgggc	actccatccg	300	
gcaccctgac	gttgagggtg	atgggttctc	tgagcttcgg	tgggatgacc	agcagaaagt	360	
caagaagaca	gcggaagctg	gaggagtgac	aggcaaaggc	caggatggaa	ttggtagcaa	420	
ggcagagaag	actctgggtg	actttgcagc	agagtatgcc	aagccaaca	gaagtacgtg	480	
caaggggggtg	tatggagaag	aatagaaaaa	gggccaggtg	c		521	

<400>	350						
gccggcgggc	ggcgatggcg	gcgggcggagg	ccggtggcga	cgacgcccgc	tgcgtgcggc	60	
tgagcgccga	gcgggcacag	gcgctgctgg	ccgacgtgga	cacgctgctg	ttcgactgog	120	
acggcgtgct	gtggcgcggg	gagaccgcgc	tgcttggcgc	gcccgaggcc	ctgcggggcg	180	
tcgagagccc	cggaagcg	ctgggcttca	tcaccaaca	cagcagcaag	accgcgcgtg	240	
cctacgcccga	gaagetgcgg	cgctgggct	tcggcgggccc	gcgggggccc	ggcgccagcc	300	
tggaggtctt	cggaacggcc	tactgcaccg	cgctctacct	gcgccagcgc	ctggcgggcg	360	
ccccgcgcc	caaggcctac	gtgctgggca	gccagccct	ggccgcggag	ctggagccgt	420	
gggcgtcgcc	agcgtgggcg	tggggcccga	c			451	

<400>	351						
agagagagag	agagagagag	agagagagag	agagagacct	cgtgccgaat	tcggcacgag	60	
gcctcgtgcc	ggaaaccttag	tgatggacaa	gttggtggtt	tcataaatta	tcgagatagc	120	
aagttaacac	gaattctcca	gaattccttg	ggaggaaatg	caaagacacg	tattatctgc	180	
acaattactc	cagtatcttt	tgatgaaaca	cttactgctc	tccagtttgc	cagtactgct	240	
aaatatatga	agaatactcc	ttatgttaat	gaggtatcaa	ctgatgaagc	tctcctgaaa	300	
aggtatagaa	aagaaataat	ggatcttaaa	aaacaattag	aggaggtttc	tttagagacg	360	
cgggctcag	caatggaaaa	agaccaattg	gccactttt	ggaagaaaaa	gatttgcttc	420	
agaaagttaca	gaatgagaaa	attgaaaatt	taacacggat	gctggtgacc	tcttctccc	480	
tcacgttgca	ccaggaaatta	aaggctaaaa	gaaaacgaag	agttacttgg	tgcccttgcaa	540	
aattaccaaaa	tgaagaactc	aacttttcag	atcattttat	t		581	

```
<210> 352
<211> 461
<212> DNA
<213> Homo sapiens
```

<400> 355  
tcttcagcgc atcagaagta tccagaatgt tcttgaaagc tcaggggctg tggaaactgt 60  
tccagcattt caagaaatta cttctatgaa agaacgatgc aacaagcttc ttcagaaagt 120  
tcagaaaaat aaagaattgg tqcagactga aatccaagaa agacattcct tcacaaaaga 180



```

gataattgct ttgaagaatt tttttcaaca gaccacaact tcattccaaa atatggcatt 240
ccaggatcac ccagaaaagt cagaacaatt tgaggagctt caaagcatcc ttaagaaagg 300
gaaactaact tttgagaata ttatggaaaa actgcgaatc aagtattccg aaatgtacac 360
catagtccct gcagagattg aatcccaggt ggaagaatgc agaaaagctt tagaagacat 420
agatgagaag attagccaat gaagtcttaa a                                451

```

<210> 356

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(441)

<223> n = A,T,C or G

<400> 356

```

gtcgcgcac cggcggccca tgaacgcctt catggtgtgg gcaaaggacg agcgcaagcg 60
gctggctcag cagaacccgg acctgcacaa cgcggtgctc agcaagatgc tgggcaaagc 120
gtggaaggag ctgaacgcgg cggagaagcg gcccttcgtg gaggaagccg aacggctgcg 180
cgtgcagcac ttgcgcgacc accccaacta caagtaccgg ccgcgccgca agaagcaggc 240
gcgcaaggcc cggcgggttg agcccggctc tgcctccggg attagcgccc ccgcagccac 300
cgccgacctt tcccgcggcg tctggctcgn tcgcgccttc cgcgagctgc cccgctgggc 360
gccgagttca cggctggggc tgccaccccg agcgtcgctc tgacggctga cccgggagct 420
gcttttccac gccgcgcgcc a                                441

```

<210> 357

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(451)

<223> n = A,T,C or G

<400> 357

```

gggcgggcgg aggcgggttg cgacgacgcc cgctgcgtgc ggctgagcgc cgagcgggca 60
caggcgctgc tggccgacgt ggacacgctg ctgttcgact gcgacggcgt gctgtggcgc 120
ggggagaccg ccgtgccttg cgcgcccgag gccctgcggg cgctgcgagc ccgcggcaag 180
cgctgggct tcatcaccaa caacagcagc aagaccgcgc ctgcctacgc cgagaagctg 240
cggcgccctg gcttcggcgg ccccgcgggg ccgcggccca gcctggaggt cttcggcacg 300
gcctactgca ccgcgctcta cctgcgccag cgctggcccg gcgccccgcg gcccaagcct 360
acgtgctggg cagcccagcc ctggccgcgg anctggaagc cgtggggcgt gccagcgtgg 420
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<210> 358

<211> 571

<212> DNA

<213> Homo sapiens

<400> 358

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gagcgggcac aggcgctgct ggccgacgtg gacacgctgc tgttcgactg cgacggcgtg 120

```

```

ctgtggcgcg gggagaccgc cgtgcctggc ggcggcgagg ccctgcgggc gctgcgagcc 180
cgcggaagc gcctgggctt catcaccac aacagcagca agaccgcgc tgcctacgcc 240
gagaagctgc ggcgctggg ctctggcggc ccgcggggc ccggcgccag cctggaggtc 300
ttcggcacgg cctactgcac cgcgtctac ctggcgccag gcctggccgg cgcggcgcg 360
cccaagccta cgtgctgggc agcccagccc tggcgcgga gctggaggcc gtggcgctcg 420
ccagcgtggg cgtggggccc gacctgca gggcgagggt ccggcgact ggctgcacgc 480
gccgctggag ccgcagctgc gcgcggtggt ggtgggcttt gaccgcact tagctacatg 540
aagctcacca agcccttgcg ctacttgaag a 571

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<210> 359

<211> 511

<212> DNA

<213> Homo sapiens

<400> 359

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gtgtatttac ggtaactgtc gccactagat ttcagcgct ttggactctc ctgttttcac 120
tttcttttgt tgactccgt gtggccctcg tgggagcctg ttttggctgc agcgggtgtc 180
ggggtgatgt ggaccccgga gctggcaatt ctgaggggat tccccactga ggctgagcgg 240
cagcaatgga aacaggagg ggtcgctcgt tcagagagt gatctttcct acaattgctg 300
ctggaaggga actatgaag catattctta aattcaatga ctcaaaatat ttttaattca 360
acaacaaccg ctgaagaaaa gattgatagc tacctggaga agcaggtagt aacattcctg 420
gattactcaa cagatttgga cacaacggaa agacaacagt tgatatttct acttgggtgtg 480
agcagtttgc aactttttgt tcaaagcaac t 511

```

<210> 360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 360

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cagcaagctg tggacgcttg tggaggaaac ccacactaac gagttcatca cctggagcca 180
gaatggccaa agttttctgg tcttgatga gcaacgattt gcaaaagaaa ttcttcccaa 240
atatttcaag cacaataata tggcaagctt tgtgaggcaa ctgaatatgt atggtttccg 300
taaagtagta catatcgact ctggaattgt aaagcaagaa agagatggtc ctgtagaatt 360
tcagcatcct tacttcaaac aaggacagga tgacttggtg gagaacatta aaaggaaggt 420
ttcatcttca aaaccagaag aaaataaaat tcgtcaggaa gatttaacaa aaattataag 480
t 481

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<210> 361

<211> 551

<212> DNA

<213> Homo sapiens

<400> 361

```

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ggggaccgga gccgaaaagt tatcgtcaga atgtcgggca aagaccgaat tgaaatcttt 120
ccctcgcgaa tggcacagac catcatgaag gctcgtttta agggagcaca gacaggtcga 180
aacctcctga agaaaaaatc tgatgcctta actcttcgat ttcgacagat cctaaagaag 240
ataatagaga ctaaaatggt gatggcgcaa gtgatgagag aagctgcctt ttcactagct 300
gaagccaagt tcacagcagg tgacttcagc actacagtta tccaaaatgt caataaagcg 360
caagtgaaga ttcgagcgaa gaaagataat gtagcagggt ttactttgcc agtatttgaa 420

```

```

cattaccatg aaggaactga cagttatgaa ctgactgggt tagccagagg tggggaacag 480
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tcttgacagac t                                     551

```

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<210> 362
<211> 481
<212> DNA
<213> Homo sapiens

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<222> (1)...(481)
<223> n = A,T,C or G

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gcagggtctg ggagggtcca tgcagttccc gntggtgtgg agggaaatgc cctggtctgg 180
cctccgagcc cccaggtcca ccgtctcccc tcccctcatt tgtaanaata gctacacact 240
aacatttttg gaaggagagg cacataactt tttttaacat ttggtaacta gggttatggc 300
tctacattgt cagctacttg ggatatatat ttaattttct taaattcccg ttaaactcta 360
ttttatgggt ttgatttcag attgcaaaca tgtaaaacct gcatagcagc gagttctcgg 420
ttttgcgggt tctttagttc tttactgtca ctgtcatgta atcagctaata tctcttggtg 480
a                                     481

```

```

<210> 363
<211> 461
<212> DNA
<213> Homo sapiens

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<400> 363
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tgaagggtgtg gggaagcatt aaaggactga ctgaaggcct gcatggattc catgttcatt 180
agttttggaga taatacagca ggctgtacca gtgcagggtc tcactttaat cctctatcca 240
gaaaacacgg tgggccaag gatgaagaga ggcatgttg agacttgggc aatgtgactg 300
ctgacaaaga tgggtgtggc gatgtgtcta ttgaagattc tgtgatctca ctctcaggag 360
accattgcat cattggccgc aactggtgg tccatgaaaa acagatgact tgggcaaagg 420
tggaaatgaa gaaagtacaa agacaggaaa cgcttgaagt c                                     461

```

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<210> 364
<211> 531
<212> DNA
<213> Homo sapiens

```

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<400> 364
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ataaacagcc agacctttgt ggtgctctac ctgctggcag gcctgatcca ggtgacaatc 180
ctgctgtacc tcgcagaagt gatggttcgg ctgacttggc accaggccct ggatcctgac 240
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ctctgctttt tcactgactg gctactgaag agcaaggcag agctgggtgg catctcagaa 360
ctggcatctg gacctcccta actgggcccc gctgggtcca tttgctcatt agaatttcct 420
ctcacatcag tgggatacag aaattcagtt tctcccttgc caggtccttg ggatggttga 480

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531

<211> 4834

<212> DNA

<213> Homo sapiens

<400> 365

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atgtctaccg	ggaagtatgt	gcacaatcac	aatgtctaca	ccaacaacga	gaactgctct	180
tccccctcgt	ggcaggccat	gcatgagcct	cggacttttg	ctgtatatct	taacaacact	240
ggctacagaa	cagccttttt	tggaaaatac	ctcaatgaat	ataatggcag	ctacatcccc	300
cctgggtggc	gagaatggct	tggattaatc	aagaattctc	gcttctataa	ttacactggt	360
tgtcgcaatg	gcatcaaaga	aaagcatgga	tttgattatg	caaaggacta	cttcacagac	420
ttaatcacta	acgagagcat	taattacttc	aaaatgtcta	agagaatgta	tccccatagg	480
cccgttatga	tggtgatcag	ccacgctgcg	ccccacggcc	ccgaggactc	agccccacag	540
ttttctaaac	tgtaccccaa	tgcttcccaa	cacataactc	ctagttataa	ctatgcacca	600
aatatggata	aacactggat	tatgcagtac	acaggaccaa	tgctgcccat	ccacatggaa	660
tttacaaata	ttctacagcg	caaaaaggctc	cagacttttg	tgtcagtgga	tgattctgtg	720
gagaggctgt	ataacatgct	cgtggagacg	ggggagctgg	agaactacta	catcattttc	780
accgccgacc	atggttacca	tattggcgag	tttgactggg	tcaaggggaa	atccatgcca	840
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<210> 366  
 <211> 818  
 <212> PRT  
 <213> Homo sapiens

<400> 366  
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 Met Glu His Gly Ala Thr Phe Ile Asn Ala Phe Val Thr Thr Pro  
                           20                          25                          30  
 Met Cys Cys Pro Ser Arg Ser Ser Met Leu Thr Gly Lys Tyr Val His  
                           35                          40                          45  
 Asn His Asn Val Tyr Thr Asn Asn Glu Asn Cys Ser Ser Pro Ser Trp  
                           50                          55                          60  
 Gln Ala Met His Glu Pro Arg Thr Phe Ala Val Tyr Leu Asn Asn Thr  
                           65                          70                          75                          80  
 Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr Leu Asn Glu Tyr Asn Gly

				85				90				95			
Ser	Tyr	Ile	Pro	Pro	Gly	Trp	Arg	Glu	Trp	Leu	Gly	Leu	Ile	Lys	Asn
			100					105					110		
Ser	Arg	Phe	Tyr	Asn	Tyr	Thr	Val	Cys	Arg	Asn	Gly	Ile	Lys	Glu	Lys
		115					120					125			
His	Gly	Phe	Asp	Tyr	Ala	Lys	Asp	Tyr	Phe	Thr	Asp	Leu	Ile	Thr	Asn
	130					135					140				
Glu	Ser	Ile	Asn	Tyr	Phe	Lys	Met	Ser	Lys	Arg	Met	Tyr	Pro	His	Arg
145					150					155					160
Pro	Val	Met	Met	Val	Ile	Ser	His	Ala	Ala	Pro	His	Gly	Pro	Glu	Asp
				165					170					175	
Ser	Ala	Pro	Gln	Phe	Ser	Lys	Leu	Tyr	Pro	Asn	Ala	Ser	Gln	His	Ile
			180					185					190		
Thr	Pro	Ser	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met
		195					200					205			
Gln	Tyr	Thr	Gly	Pro	Met	Leu	Pro	Ile	His	Met	Glu	Phe	Thr	Asn	Ile
	210					215					220				
Leu	Gln	Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val
225					230					235					240
Glu	Arg	Leu	Tyr	Asn	Met	Leu	Val	Glu	Thr	Gly	Glu	Leu	Glu	Asn	Thr
				245					250					255	
Tyr	Ile	Ile	Tyr	Thr	Ala	Asp	His	Gly	Tyr	His	Ile	Gly	Gln	Phe	Gly
			260					265					270		
Leu	Val	Lys	Gly	Lys	Ser	Met	Pro	Tyr	Asp	Phe	Asp	Ile	Arg	Val	Pro
		275					280					285			
Phe	Phe	Ile	Arg	Gly	Pro	Ser	Val	Glu	Pro	Gly	Ser	Ile	Val	Pro	Gln
	290					295					300				
Ile	Val	Leu	Asn	Ile	Asp	Leu	Ala	Pro	Thr	Ile	Leu	Asp	Ile	Ala	Gly
305					310					315					320
Leu	Asp	Thr	Pro	Pro	Asp	Val	Asp	Gly	Lys	Ser	Val	Leu	Lys	Leu	Leu
				325					330					335	
Asp	Pro	Glu	Lys	Pro	Gly	Asn	Arg	Phe	Arg	Thr	Asn	Lys	Lys	Ala	Lys
			340					345					350		
Ile	Trp	Arg	Asp	Thr	Phe	Leu	Val	Glu	Arg	Gly	Lys	Phe	Leu	Arg	Lys
		355					360					365			
Lys	Glu	Glu	Ser	Ser	Lys	Asn	Ile	Gln	Gln	Ser	Asn	His	Leu	Pro	Lys
	370					375					380				
Tyr	Glu	Arg	Val	Lys	Glu	Leu	Cys	Gln	Gln	Ala	Arg	Tyr	Gln	Thr	Ala
385					390					395					400
Cys	Glu	Gln	Pro	Gly	Gln	Lys	Trp	Gln	Cys	Ile	Glu	Asp	Thr	Ser	Gly
				405					410					415	
Lys	Leu	Arg	Ile	His	Lys	Cys	Lys	Gly	Pro	Ser	Asp	Leu	Leu	Thr	Val
			420					425					430		
Arg	Gln	Ser	Thr	Arg	Asn	Leu	Tyr	Ala	Arg	Gly	Phe	His	Asp	Lys	Asp
		435					440					445			

515                      520                      525  
 Lys Gly Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg  
 530                      535                      540  
 Met Leu Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg  
 545                      550                      555                      560  
 Val Thr His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu  
 565                      570                      575  
 Arg Glu Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr  
 580                      585                      590  
 Ile Asp Lys Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg  
 595                      600                      605  
 Glu Val Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys  
 610                      615                      620  
 Ser Lys Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu  
 625                      630                      635                      640  
 Lys Leu Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val  
 645                      650                      655  
 Asp Ser Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys  
 660                      665                      670  
 Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu  
 675                      680                      685  
 Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala  
 690                      695                      700  
 Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn  
 705                      710                      715                      720  
 Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu  
 725                      730                      735  
 Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr  
 740                      745                      750  
 Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile  
 755                      760                      765  
 Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly  
 770                      775                      780  
 Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys  
 785                      790                      795                      800  
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 805                      810                      815  
 Glu Gly

<210> 367  
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 <212> DNA  
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<220>  
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 <223> n = A,T,C or G

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 gctggcggct tcacaacanat aaacttttgg acaaaggnac aanatatttt tgggcattca 180

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tatggatttcc tgaagtataa actgacatac aaatctatat attttcttaa tacttttcat 300
taaagcatctt ttaaagcatt ctgtaacatg aagttganag ttcaaattan atgtaatgaa 360
a 361

```

```

<210> 368
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(558)
<223> n = A,T,C or G

```

```

<400> 368
ccagtgtggt ggaattcgac tcgtctcagg ccagttgcag ccttctcagc caaacgccga 60
ccaaggaaaa ctactaccac tgagaattgc agtgatttgc ttttgccctc taggcatcac 120
ctgtgccata ccagttaaac aggtctgattc tggaagttct gagggaaaagc agctttacaa 180
caantaccca gatgctgtgg ccacatggct aaacctgac ccattctcaga agcagaatct 240
cctagcccca cagaatgctg tgtcctctga agaaaccaat gacttttaaac aagagaccct 300
tccaagtaag tccaacgaaa gccatgacca catggatgat atggatgatg aagatgatga 360
tgaccatgtg gacagccagg actccattga ctogaacgac tctgatgatg tagatgacac 420
tgatgattct caccagtctg atgagtctca ccattctgat gaatctgatg aactggtcac 480
tgattttccc acggacctgc cagcaaccga agttttcact ccagttgtcc ccacagtaga 540
cacatatgat ggccgagg 558

```

```

<210> 369
<211> 1021
<212> DNA
<213> Homo sapiens

```

```

<400> 369
tttttacaaac atatattcttt aattaaattht atattggkkg gtttaaaaaa cattaagtca 60
ggagatgata gctagggaaa taaggatatcc tgtgagtatt tataacaaaa tattttaaht 120
ttaaaaaagaa taagaaacat caattggctt tttgtactt aaaagagact aaccaagtgt 180
tgtttccagc ttctgtacaa gcagaggcca caggaggatt cttacataag aagcacaggg 240
aaaagaattg ttaattctgc gtgtgtgttt ttgtttctca gaattgtttg gaagaacttt 300
gtccagtcag aaatgagtaa aaacaagatg taagaaacat taaaacaggg ggcatatggc 360
cttaagagat aatcttggag aatatagcaa aagacaaatt gctccattag atattataat 420
ttggtatgta acatgaacat ttaaaattct gattaaagtg actaaaaggg tttgtttttt 480
aaaaaaaaatc aaacagaaac ttacgggata aaactcaaaa taaattttact ctcagtagta 540
acttgatgta ggaatataag tcctctcact ttgataaaca tgaatataaa atattgctgt 600
ctgtattcta gggtttccca cattttctgt aaagagtgat tcatgctatg tcatatgtaa 660
atgactcaac attttgagct aaaaggctgt tcacaatata cacattcttt acttacaag 720
caaaaataagc ttaacacctt tatattaaaa acccgggata cagcaggatt agtagcaccg 780
tgaaaaataa ttcttccac aaactgcagt cttttatttt actcaatgtg actcttctct 840
taattgaatt catttatgta actgggcaaa atatataatt ttcattttat 900
aattcttggg gaaagtcatt ctggacccaa aaagtaaaatt cacttcttta tttctttagt 960
agaaaaataa tagagacttt gctctggcgc attgctgagg tacatctgaa tcttcatggc 1020
t 1021

```

```

<210> 370
<211> 204

```



```
<220>
<221> misc_feature
<222> (1)...(204)
<223> n = A,T,C or G
```

```
<210> 371
<211> 628
<212> DNA
<213> Homo sapiens
```

```
<210> 372
<211> 473
<212> DNA
<213> Homo sapiens
```

```
<210> 373
<211> 283
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```

<222> (1)...(283)

<223> n = A,T,C or G

<400> 373

```

tttaagtcaa tgccttttat ttttagtttt tctgaagaca aagctcttat aagaatcaca 60
gatgaaagat caggcacaaa tcacattttc ccccttaata acaaaatata aatccaataa 120
ttttagaaaa tcagttttta gtgacccana tgcctggaga aaagctgcca ggatttttct 180
ggtctatcgc agaattttct acatcaatga gaaggatgct gcatactctg gctgtattat 240
ttcctaccgn gagaaaagaa acttaatatata tggaacatgc ttt
283

```

<210> 374

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(529)

<223> n = A,T,C or G

<400> 374

```

tccagngtgg tggaattccg cgcgcggggc gctgctgctg gcgctgctgc tggctcgggc 60
tggactcagg aagccggagt cgcaggaggc ggcgccctta tcaggaccat gcggccgacg 120
ggatcatcac tgcgcgcatc tgggtggaga ggacgccgaa ctcgggcggt ggccgtggca 180
ggggagcctg cgcctgtggg attcccacgt atgcggagtg agcctgctca gccaccgctg 240
ggcactcacg ggggcgcact gctttgaaac tgaccttagt gatccctccg ggtggatggt 300
ccagtttggc cagctgactt ccattgccatc cttctggagc ctgcaggcct actacaccg 360
ttacttggta tcgaatatct atctgagccc tcgctacctg gggaattcac cctatgacat 420
tgccttgggt aagctgtctg cacctgtcac ctacactaaa cacatccage ccattctgtct 480
ccaggccttc acatttgagt ttgagaaccg gacagactgc tgggtgact
529

```

<210> 375

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 375

```

tttgaattta naccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa 60
cataccacaa gagaagttaa tttcttaaca ttgtgttcta tgattatttg taagaccttc 120
accaagtctt gatattcttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct 180
tgaaaatatc cttgttgtgt attaggtttt taaataccag ctaaaggatt acctcactga 240
gtcatcagta cctcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga 300
ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagt 360
tttatggtaa actcttttaa agaaaattta atatgttata gctgaatctt tttggtaact 420
ttaaatcttt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt 480
atcatcggtg ggatgacaga acaaacatat ttatgatca
519

```

<210> 376

<211> 171

<212> DNA  
<213> Homo sapiens

<400> 376  
tcaagatttta gccaaaggctg tggcaaagggt gtaacttgta aacttgagtt ggagtactat 60  
atttacaaat aaaattggca ccatgtgccca tctgtacata ttactgttgc atttactttt 120  
aataaagctt gtggcccctt ttactttttt atagcttaaa aaaaaaaaaa a 171

<210> 377  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 377  
ccagtgtggt ggaattaatc aggcctccca aatttagcag gtgctgggga ggaccctagg 60  
gagtggttta tgggggctag ctgggtgaaac tgccctttcc tttctgttct atgagtgtga 120  
tggtgtttga gaaaatgtgg ggctatgggt caggcgcaact tcacatgtgc aaagatggag 180  
aaagcactca cctacacgtt taggctcaga atattgattg aaacattttg aatgatcaaa 240  
aataaaatgt tattttttaa gtttcaaaaa 270

<210> 378  
<211> 416  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(416)  
<223> n = A,T,C or G

<400> 378  
ccagtgtggt ggaattcgcc actgctaggg tttacaggtc atccctggat taaataagtg 60  
atattgtggt ttttttttct ttgacacaaa gtaaaattat aattaatatt gaataaagta 120  
aaaatgaact ccagtgnngn ggaattcgcc actcaggaaa tattagttgc atgaacgaag 180  
gctgcatttt catcanaaca acatgcagtt caacccttc atgtttcaat gagggttcan 240  
atncccanag ggctatgcta tcaccttgga gccactctg ctaacaatta gcanaacgga 300  
agccttaatt tccanattct agtgaacttg atgagtcaan actattgcaa ttggaaatct 360  
gttctcctct gctgctgcat tccctgctta atactcaagc canaaaccag gaaggt 416

<210> 379  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 379  
ttcctatgat cattaaactc attctcaggg ttaagaaagg aatgtaaatt tctgcctcaa 60  
tttgtacttc atcaataagt ttttgaagag tgcagatttt tagtcagggtc ttaaaaataa 120  
actcacaaat ctggatgcat ttctaaattc tgcaaatggt tccctggggtg acttaacaag 180  
gaataatccc acaatatacc tagctacctt atacatggag ctgggggtca acccactgtt 240  
tttaaggatt tgcgcttact tgtggctgag gaaaaataag tagttcgagg aagtagtttt 300  
taaagtgtgag cttatagata gaaacagaat atcaacttaa ttatgaaatt gttagaacct 360  
gttctcttgt atctgaatct gattgcaatt actattgtac tgatagactc cagccattgc 420  
aagtctcaga tatcttagct gtgtagtgat tcttgaaatt cttttttaaga aaaattgagt 480  
agaaagaaat aaaccctttg taaatgaggc ttggcctttt tgaaagatca tccgcaggct 540

576

<211> 347

<213> Homo sapiens

ccagtgtggt	ggaattcgga	gagaaggaag	ctgtggggccc	agccgaggaa	gcgaaaaaac	60
aaacaagcag	ttcccattgt	ggaaccccaa	gaacctgaga	tcaaaactaaa	atatgccacc	120
cagccactgg	ataaaaactga	tgccaagaac	aagtcttttt	acccttacat	ccatgtagta	180
aataagtgtg	aacttggagc	cgttttgtaca	atcatcaatg	ctgaggaaga	agaacagacc	240
aaattagtga	ggggcaggaa	gggtcagagg	tctactgacc	ctccacctag	cgcactgaa	300
agcaaggcgc	tcccggcctc	gtcctttatg	ctgcaggggac	ctgttgt		347

<211> 258

<213> Homo sapiens

gacaagctcc	tggtcttgag	atgtcttctc	gttaaggaga	tgggcctttt	ggaggtaaag	60
gataaaatga	atgagttctg	tcatgattca	ctattctaga	acttgcattga	cctttactgt	120
gttagctctt	tgaatgttct	tgaaaatttta	gactttcttt	gtaaacaaaat	gatatgtcct	180
tatcatgtga	taaaagctgt	tatgtgcaac	agtgtggaga	ttccttgtct	gatttaataa	240
aatactttaa	cactgaaa					258

<211> 580

<213> Homo sapiens

gccgtagggg	gtacctgctg	cccagctga	ctgtggcccc	ctccgtgac	catccatctc	60
cagggagcaa	gacagagacg	caggaatgga	aagcggagtt	cctaacagga	tgaaagttcc	120
cccatcagtt	cccccagtac	ctccaagcaa	gtagctttcc	acatttgtca	cagaaatcag	180
aggagagatg	gtgttgaggag	ccctttggag	aacgccagtc	tcccaggccc	cctgcactca	240
tcgagtttgc	aatgtcacaa	cctctctgat	cttgtgtctca	gcattgattct	ttaatagaag	300
ttttattttt	tcgtgcactc	tgctaatacat	gtgggtgagc	cagtggaaaca	gcgggagacc	360
tgtgctagtt	ttacagattg	cctcctaattg	acgcggctca	aaaggaaacc	aagtggtcag	420
gagttgtttc	tgacccactg	atctctacta	ccacaaggaa	aatagtttag	gagaaaccag	480
cttttactgt	ttttgaaaaa	ttacagcttc	accctgtcaa	gttaacaagg	aatgcctgtg	540
ccaataaaag	gtttctccaa	cttgaagtct	actctgaaaa			580

<211> 608

<213> Homo sapiens

gtgctagatg	aaaagcgtgc	aatatgyttt	aaagctatca	acaaaaactg	aatattataa	60
gcaagcaata	tcatagtaat	tggcagatta	gctcatattc	tatacagcat	cgtttaaata	120
ggaaaaattt	aatgctagca	aaaaataaat	ttagaaatat	ggcatgacat	gaaaatacaa	180
tcttatattt	acaccagctt	ttcactaata	ttttgtacct	aagggtgatgg	ggaactccat	240

```
<210> 384
<211> 585
<212> DNA
<213> Homo sapiens
```

```
<210> 385
<211> 511
<212> DNA
<213> Homo sapiens
```

<400>	385					
atattgtaca	gtatttatcg	agataaacat	ggtwatcaaa	atgtccattg	tttataagct	60
gagaatttgc	caatatTTTT	caaggagagg	cttcttgctg	aattttgatt	ctgcagctga	120
aatttaggac	agttgcaaac	gtgaaaagaa	gaaaattatt	caaatttgga	cattttaatt	180
gtttaaaaat	tgtacaaaag	gaaaaaatta	gaataagtac	tggcgaaacca	tctctgtggt	240
cttgttttaa	aaggggcaaaa	gttttagact	actaaatTTT	ttaacagtaa	gttataaaaT	300
ttagtagtct	aaaacttata	acttactggt	aaaagcaaaa	atggccatgc	aggttgacac	360
cgttggtaat	ttataatagc	ttttgttcga	tcccaacttt	ccattttggt	cagataaaaa	420
aaaccatgaa	attactgngt	ttgaaatatt	ttcttatggt	ttgtaatatt	tctgtaaatt	480
tattgtgata	ttttaaggnt	ttccccctt	t			511

```
<210> 386
<211> 311
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(311)
```

<223> n = A,T,C or G

<400> 386

```
gtggaattcc atgaatntag ttcccatcat gacttanaag gtgctgtagg tgggtactac 60
ccagaaccca gtnagctttg tcaacttgat caaagtgatt ctgatttcca tggagatcct 120
acatttcaac acgtatttca taaccacact taccacttac agccaactgc accagaatct 180
acttctgaac cttttccgtg gcctgggaag tcacagaaga taaggagtag ataccttgaa 240
gacacagata gaaacttgag ccgtgatgaa cagcngcta aagctttgca tatccctttt 300
tctgtagatg a 311
```

<210> 387

<211> 461

<212> DNA

<213> Homo sapiens

<400> 387

```
cacagatagc aagacttcat ttcaggagtt gggagtggga agtaggaagt gtttaatccc 60
aagttttggt gcctaaaaat ggctagtagt atagttaatt ctcaattctc tagctgtgat 120
cttctgtgcc ttctatctct tctaaggaa aaccacatta gatgaaccca gggctcagtc 180
attttaggga gaggttgag acaacactgc cagcaacaca gctggaatca cccgagtcgg 240
gaacattaaa gttcctgaga gaatatgaaa caactatcaa cataatattt ctccctactt 300
ttacagtaaa atattggaag taaataaata tagggaatgc aacaactggc taggagtgtt 360
ttacattcag ttgtttggaa gcataacaca ttcagctcct ttgaatcttc ccgttagaaa 420
atacagaatt actctatcac cttttaaggt acagtaaaaa a 461
```

<210> 388

<211> 555

<212> DNA

<213> Homo sapiens

<400> 388

```
ggataaaggc cagggatgct gctcaacctc ctaccatgta caggacgtct cccattaca 60
actacccaat ccgaagtgtc aactgtgtca ggactaagaa accctggttt tgagtagaaa 120
agggcctgga aagaggggag ccaacaaatc tgtctgcttc ctacattag tcattggcaa 180
ataagcattc tgtctctttg gctgctgcct cagcacagag agccagaact ctatcgggca 240
ccaggataac atctctcagt gaacagagtt gacaaggcct atgggaaatg cctgatggga 300
ttatcttcag cttgttgagc ttctaagttt ctttcccttc attctaccct gcaagccaag 360
ttctgtaaga gaaatgcctg agttctagct caggttttct tactctgaat ttagatctcc 420
agacccttcc tggccacaat tcaaattaag gcaacaaaca tataccttcc atgaagcaca 480
cacagacttt tgaaagcaag gacaatgact gcttgaattg aggccttgag gaatgaagct 540
ttgaaggaaa agaatt 555
```

<210> 389

<211> 563

<212> DNA

<213> Homo sapiens

<400> 389

```
ttatttttgt cagctgagta ccatcaggat atttaaccct ttaagtgtg ttttgggagt 60
agaaaactaa agcaacaata cttcctcttg acagctttga ttggaatggg gttattagat 120
cattcacctt ggtcctacac tttttaggat gcttggtgaa cataacacca cttataatga 180
acatccctgg ttctatatt ttgggctatg tgggtaggaa ttgttacttg ttactgcagc 240
agcagcccta gaaagtaagc ccagggttcc agatctaagt tagtccaaaa gctaaatgat 300
ttaaagtcaa gttgtaatgc taggcataag cactctataa tacattaaat tataggccga 360
```

```

gcaattaggg aatgtttctg aaacattaaa cttgtattta tgtcactaaa attctaacac 420
aaacttaaaa aatgtgtctc atacatatgc tgtactaggc ttcatcatgc atttctaaat 480
ttgtgtatga tttgaatata tgaaagratt tatacaagag tgttatttaa aattattaaa 540
aataaatgta tataatttga aaa 563

```

<210> 390

<211> 278

<212> DNA

<213> Homo sapiens

<400> 390

```

gaacattatg ttttagatgg gtagtactag ctactcatct gtccccaga aaccaagct 60
aagcatggac atattgaaga gaatgtcagc accattaaaa aaactctaga aaaatcacat 120
gtgatgactg aggttaattc agtctgtcaa ttacatcagt ataattgcct tcttgtaacc 180
ctaagtatgg tgaagcagaa ttgaattcta caaaagtctt tcatctgttt tcctatggaa 240
taattaacaa acccaataaa tgtataaata gcatgaaa 278

```

<210> 391

<211> 578

<212> DNA

<213> Homo sapiens

<400> 391

```

cggcgctcgg ctgcgaggat ggatcccgta cccgggacag actcggcgcc gctggctggc 60
ctggcctggg cgtcggcctc tgcacccccg ccgcgggggt tcagcgcgat ctccctgcacc 120
gtcgaggggg caccgcgccg ctttgccaag agcttcgcgc agaaatctgg ctacttcctg 180
tgccttagtt ctctgggcag cctagagaac ccgcaggaga acgtgggtggc cgatatccag 240
atcgtggtgg acaagagccc cctgccgctg ggcttctccc ccgtctgcga ccccatggat 300
tccaaggcct ctgtgtccaa gaagaaacgc atgtgtgtga agctgttgcc cctgggagcc 360
acggacacgg ctgtgtttga tgtccggctg agtgggaaga ccaagacagt gcctggatac 420
cttcgaatga gggacatggg cggctttgcc atctggtgca agaaggccaa ggccccgagg 480
ccagtgcaca agccccgagg tctcagccgg gacatgcagg gcctctctct ggatgcagcc 540
agccagccaa gtaagggcgg cctcctggag cggacagc 578

```

<210> 392

<211> 439

<212> DNA

<213> Homo sapiens

<400> 392

```

ttcaacaaac cttgtatagt gtatgttttg ccatatttaa tattaatagc agaggaagac 60
tccttttttc atcactgtat gaatttttta taatgttttt ttaaaatata tttcatgtat 120
aattataaac taattcacac aagtgtttgt cttagatgat taaggaagac tataatctaga 180
tcatgtctga ttttttattg tgacttctcc agccctggtc tgaatttctt aagggttttat 240
aaacaaatgc tgctatttat tagctgcaag aatgcacttt agaactatth gacaattcag 300
actttcaaaa taaagatgta aatgactggc caataataac catttttagga aggtgttttg 360
aattctgtat gtatatattc actttctgac atttagatat gccaaaagaa ttaaaatcaa 420
aagcactaag aaataaaaa 439

```

<210> 393

<211> 544

<212> DNA

<213> Homo sapiens

```

<400> 393
tttgaattta caccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa 60
cataccacaa gagaagttaa ttctttaaca ttgtgttcta tgattatttg taagaccttc 120
accaagttct gatatctttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct 180
tgaaaatatc cttgttgtgt attaggtttt taaataccag ctaaaggatt acctcactga 240
gtcatcagta ccttcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga 300
ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagtg 360
tttatggtaa actcttttaa agaaaattta atatgttata gctgaatctt tttggtaact 420
ttaaatcttt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt 480
atcatcgggtg ggatgacaga acaaacatat ttatgatcat gaataatgtg ctttgtaaaa 540
agat 544

```

<210> 394

<211> 424

<212> DNA

<213> Homo sapiens

```

<400> 394
aaacatcatt tagcagcaat gaacctgtca acacatggaa ataaggttta cagtcattgca 60
aatgtccatt taactttgtt tgagccaaac aaatataaca gtaaaactaat tagactggct 120
tacatccccg tagacagtga aaccaattat ttcttaaaga agggtttgct tgtttttact 180
ctagggcaaa ggtgcataac ttcttgtaat actcctgaat agttcttcaa atcaggacag 240
ataaagttgg caactgatgg aatagctacc ttgatgtgca aatgggtggg tctttaatta 300
ggtttcattta tataattgag aaagaagcca ggggaatgcat ttgtgcaagg atgattttta 360
aagaagaggg atggctctgcc ttttaattct gtatgggagg aaaattcata aaaaactgaa 420
aaaa 424

```

<210> 395

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(279)

<223> n = A,T,C or G

```

<400> 395
ttcctatgat nattaaactc attctcaggg ttaagaaagg aatgtaaatt tctgcctcaa 60
tttgcacttc atcaataagt ttttgaagag tgcagatttt tagtcaggtc ttaaaaaataa 120
actcaciaaat ctggatgcat ttctaaattc tgcaaatgtt tcctgggggtg acttaacaag 180
gaataatccc acaatatacc tagctacctt atacatggag ctgggggctca acccactgtt 240
tttaaggatt tgcgcttact tgtggctgan gaaaaataa 279

```

<210> 396

<211> 3293

<212> DNA

<213> Homo sapiens

<400> 396

```

cagccccggg ccaggccgcg gccggggcag gagcgcaggg gctttgttat gcacctaaag 60
ccatatttga agctccagaa gaaagagcac cccccggaag tcagcaggga aacgcagaga 120
actcctatga accacaaaaa ggctgtaaat gatgaaacat gcaaagctag ccacataaca 180

```



tcaagtgtct	ttccttcagc	ctctctcggt	aaagcatcat	ctcgaaagcc	atttgggac	240
ctttctccaa	atgtttctgtg	cagtatgagt	gggaagagtc	ctgtagagag	cagcttgaat	300
gttaaaacca	aaaagaatgc	accatctgca	acgatccacc	agggcgaaga	agaaggacca	360
cttgatatct	gggctgttgt	gaaacctgga	aataccaagg	aaaaaattgc	attctttgca	420
tcccaccagt	gtagtaacag	gataggatct	atgaaaataa	aaagttcctg	ggatattgat	480
gggagagcta	ctaagagaag	gaaaaaatca	ggggatctta	aaaaagccaa	ggtacagggtg	540
gaaaggatga	gggagggttaa	cagcagggtgc	taccaacctg	agccttttgc	atgtggcatt	600
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<212> PRT

<400> 397

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Pro	Ser	Ala	Ser	Leu	Gly 70	Lys	Ala	Ser	Ser	Arg 75	Lys	Pro	Phe	Gly	Ile 80
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His	Gln	Gly	Glu	Glu	Glu	Gly	Pro	Leu	Asp	Ile	Trp	Ala	Val	Val	Lys
Pro	Gly	Asn	Thr	Lys	Glu	Lys	Ile	Ala	Phe	Phe	Ala	Ser	His	Gln	Cys
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Lys	Val	Gln	Val 180	Glu	Arg	Met	Arg	Glu 185	Val	Asn	Ser	Arg	Cys	Tyr	Gln
Pro	Glu	Pro	Phe 195	Ala	Cys	Gly	Ile 200	Glu	His	Cys	Ser	Val	His	Tyr	Val
Ser	Asp	Ser	Gly	Asp	Gly	Val	Tyr	Ala	Gly	Arg	Pro	Leu	Ser	Val	Ile
Gln	Met	Val	Ala	Phe	Leu	Glu	Gln	Arg	Ala	Ser	Ala	Leu	Leu	Ala	Ser
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Ala	Cys	Glu	Glu	Pro	Thr	Glu	Arg	Gly 280	Asn	Leu	Glu	Val	Gly	Glu	Pro
Gln	Ser	Glu	Pro	Val	Arg	Val	Leu	Asp 295	Met	Val	Ala	Lys	Leu	Glu	Ser
Glu	Cys	Leu	Lys	Arg	Gln	Gly	Gln	Arg	Glu	Pro	Gly	Ser	Leu	Ser	Arg
Asn	Asn	Ser	Phe	Arg	Arg	Asn	Val	Gly	Arg 330	Val	Leu	Leu	Ala	Asn	Ser
Thr	Gln	Ala	Asp 340	Glu	Gly	Lys	Thr	Lys 345	Lys	Gly	Val	Leu	Glu	Ala	Pro
Asp	Thr	Gln	Val	Asn	Pro	Val	Gly	Ser 360	Val	Ser	Val	Asp	Cys	Gly	Pro
Ser	Arg	Ala	Asp	Arg	Cys	Ser	Pro	Lys	Glu	Asp	Gln	Ala	Trp	Asp	Gly
Ala	Ser	Gln	Asp	Cys	Pro	Pro	Leu	Pro	Ala	Gly	Val	Ser	Phe	His	Ile

```

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Asn Arg Tyr Asp Val Glu Met Thr Asp Glu Leu Val Gly Leu Pro Phe
          420          425          430
Ser Ser His Thr Tyr Ser Gln Ala Ser Glu Leu Pro Thr Asp Ala Val
          435          440          445
Asp Cys Met Ser Arg Glu Leu Val Ser Leu Thr Ser Arg Asn Pro Asp
          450          455          460
Gln Arg Lys Glu Ser Leu Cys Ile Ser Ile Thr Val Ser Lys Val Asp
465          470          475          480
Lys Asp Gln Pro Ser Ile Leu Asn Ser Cys Glu Asp Pro Val Pro Gly
          485          490          495
Met Leu Phe Phe Leu Pro Pro Gly Gln His Leu Ser Asp Tyr Ser Gln
          500          505          510
Leu Asn Glu Ser Thr Thr Lys Glu Ser Ser Glu Ala Ser Gln Leu Glu
          515          520          525
Asp Ala Ala Gly Gly Asp Ser Ala Ser Glu Glu Lys Ser Gly Ser Ala
          530          535          540
Glu Pro Phe Val Leu Pro Ala Ser Ser Val Glu Ser Thr Leu Pro Val
545          550          555          560
Leu Glu Ala Ser Ser Trp Lys Lys Gln Val Ser His Asp Phe Leu Glu
          565          570          575
Thr Arg Phe Lys Ile Gln Gln Leu Leu Glu Pro Gln Gln Tyr Met Ala
          580          585          590
Phe Leu Pro His His Ile Met Val Lys Ile Phe Arg Leu Leu Pro Thr
          595          600          605
Lys Ser Leu Val Ala Leu Lys Cys Thr Cys Cys Tyr Phe Lys Phe Ile
          610          615          620
Ile Glu Tyr Tyr Asn Ile Arg Pro Ala Asp Ser Arg Trp Val Arg Asp
625          630          635          640
Pro Arg Tyr Arg Glu Asp Pro Cys Lys Gln Cys Lys Lys Tyr Val
          645          650          655
Lys Gly Asp Val Ser Leu Cys Arg Trp His Pro Lys Pro Tyr Cys Gln
          660          665          670
Ala Leu Pro Tyr Gly Pro Gly Tyr Trp Met Cys Cys His Arg Ser Gln
          675          680          685
Lys Gly Phe Pro Gly Cys Lys Leu Gly Leu His Asp Asn His Trp Val
          690          695          700
Pro Ala Cys His Ser Phe Asn Arg Ala Ile His Lys Lys Ala Lys Gly
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Thr Glu Ala Glu Glu Glu Tyr
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```

```

<210> 398
<211> 403
<212> DNA
<213> Homo sapiens

```

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gtaccgggac cagcacttcc ggggtgacaa tgaagaacaa gaaaaattac tgaagaaaag 180

```

```

ctgtacgtta tatgttgga atctttcttt ttacacaact gaagaacaaa tctatgaact 240
cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300
agcatgtgga ttctgttttg tggaatatta ctcacgcgca gatgcggaaa acgccatgcg 360
gtacataaat gggacgcgtc tggatgaccg aatcattcgc aca 403

```

<210> 399

<211> 403

<212> DNA

<213> Homo sapiens

<400> 399

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ttttgatgct ttctttcatg ggaatagtca cttttttatt tagtaaactg cattgctgga 60
accaccaagg agtggtggaat gtcottgagt gtattattta tgcaagtcac agtcacgttg 120
ccatcatggc agctatgtga aacactaata aatgtgtttt tactttttat tcccgttaaa 180
actgatgtaa aacaggataa aggcttgta tagtcactta taagtatctg ggtctaagta 240
atttccttag atgttttctaa agaaacattt tcagctttgc tcccattatg attccaataa 300
ggaaacgttt cctagtgcaa ttttaggagt aaagtttgaa gagataaaaa tagccaaaga 360
taggagacgt ctgaattttg aatgataaac agtgatgttt taa 403

```

<210> 400

<211> 283

<212> DNA

<213> Homo sapiens

<400> 400

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ttatttttcc cctcaaattc atgattttta cgtctgttac aaagggaatt ttgctgatag 60
ctctttgggt cccactgttc cattttatgc taatagattc cattctaggg cccagccgtc 120
tcttgactga tgggtgttccc tttaaccctt ggcatgtata atagaatttt ggtgaatgaa 180
agaacccaaa taggccagat agtcccccca ggccctgata tccataaaaag gcttggggaat 240
gcattatgta attgtcctta gtctttttgt tgttttagaa aaa 283

```

<210> 401

<211> 303

<212> DNA

<213> Homo sapiens

<400> 401

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cataaagggt gtgcgcgtct tcgacgtggc ggtcttgggc ccaactgctgc gagaccggc 60
cctggacctc aaggtcatcc acttggtgcg tgatccccgc gcggtggcga gttcacggat 120
ccgctcgcgc cacggcctca tccgtgagag cctacagggt gtgcgcagcc gagaccgcg 180
agctcaccgc atgcccttct tggaggccgc gggccacaag cttggcgcca agaaggagg 240
cgtggggcgg cccgcagact accacgctct gggcgctatg gaggtcatct gcaatagtat 300
ggc 303

```

<210> 402

<211> 473

<212> DNA

<213> Homo sapiens

<400> 402

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ctgcacccct tacattagcc actaaatacg ttattgcttg atgaagacct ttcacagaat 180
cctatggatt gcagcatttc acttggctac ttcataacca tgccttaaag aggggcagtt 240

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aagggcagct ggcccccaat gtggggagggt cogaacattt tctgaattcc cattttcttg 360
ttcgcggtcta aatgacagtt tctgtcatta cttagattcc gatctttccc aaagggtgtg 420
atttacaag aggccagcta atagcagaaa tcatgaccct gaaagagaga tga 473

```

```

<210> 403
<211> 513
<212> DNA
<213> Homo sapiens

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<400> 403
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tcttcagtaa acccaacaat agtctaacct taaaaattga gttgatgtcc ttatagggtca 180
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taaaagtgtg gccactgagc atttgatttt ataggaaaaa atagtatttt tgagaataac 360
atagctgtgc tattgcacat ctgttgaggg acatcccaga tttgcttata ctcatgtcct 420
gtgatattga gtttaaggat ttgaggcagg ggtaattatt aaacatattg cttctattct 480
tggaataata gaagtgtaaa atgttaataa tac 513

```

```

<210> 404
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<400> 404
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aagagttgga tgcctttccg aagggttcctg agagctatgt agagacttca gccagtggag 180
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tggatttagc agaaacaatg gttgcatctg cagatgggtt agtttatgaa ccaacagtat 420
ttgatctttc accacagcag aaagagtggc agaggatgct gcagctgatt cagagtaggc 480
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```

```

<210> 405
<211> 513
<212> DNA
<213> Homo sapiens

```

```

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<222> (1)...(513)
<223> n = A,T,C or G

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<400> 405
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tcgaaggcca tcaagaattt actgaaagca gttagcaagg aaaggcttaa aagatctcct 360

```

```
<210> 406
<211> 483
<212> DNA
<213> Homo sapiens
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<210> 407
<211> 241
<212> DNA
<213> Homo sapiens
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<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G
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```
<210> 408
<211> 213
<212> DNA
<213> Homo sapiens
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```
<210> 409
<211> 413
<212> DNA
<213> Homo sapiens
```

```
<210> 410
<211> 153
<212> DNA
<213> Homo sapiens
```

```
<400> 410
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ggttgctaca catgttgggt ctgtaganaa acatcttgag gagcagattc ctaaagttga 120
taganaatat gaagaatgca tgtcaaaaga tct                                     153
```

```

<400> 411
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aaaaaggaat ggaaagtagg attaccatt ggccaaggag gctttggctg tatatatctt 240
gctgatatga att
253

```

<400> 412							
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tttgagcagc	120						
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tctggcagca	420						
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gtatggctccc	660						
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gctgtgtcca	780						

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<210> 413

<211> 632

<212> PRT

<213> Homo sapiens

<400> 413

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          20              25              30
Leu Ala Lys Asp Phe Glu Asp Phe Arg Lys Lys Trp Gln Arg Thr Asp
          35              40              45
His Glu Leu Gly Lys Tyr Lys Asp Leu Leu Met Lys Ala Glu Thr Glu
          50              55              60

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Glu	Arg	Gln	Ile	Gln	Leu	Ile	Arg	Glu	Met	Leu	Met	Cys	Asp	Thr	Ser
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Thr	Asp	Glu	Ser	Leu	Asp	Trp	Asp	Ser	Ser	Leu	Val	Lys	Thr	Phe	Lys
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 Glu Arg Leu Leu Ser Leu Pro Leu Glu Tyr Trp Ser Gln Phe Met Met  
                   530                                  535                                  540  
 Val Glu Gln Glu Asn Ile Asp Pro Leu His Val Ile Glu Asn Ser Asn  
                   545                                  550                                  555                                  560  
 Ala Phe Ser Thr Pro Gln Thr Pro Asp Ile Lys Val Ser Leu Leu Gly  
                                   565                                  570                                  575  
 Pro Val Thr Thr Pro Glu His Gln Leu Lys Thr Pro Ser Ser Ser  
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 Ser Leu Ser Gln Arg Val Arg Ser Thr Leu Thr Lys Asn Thr Pro Arg  
                   595                                  600                                  605  
 Phe Gly Ser Lys Ser Lys Ser Ala Thr Asn Leu Gly Arg Gln Gly Asn  
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<210> 414

<211> 3061

<212> DNA

<213> Homo sapiens

<400> 414

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&lt;211&gt; 732

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

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&lt;210&gt; 416

&lt;211&gt; 2846

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

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&lt;211&gt; 1602

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

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<213> Homo sapiens
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&lt;210&gt; 419

&lt;211&gt; 563

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 419

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&lt;210&gt; 420

&lt;211&gt; 2690

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

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&lt;210&gt; 421

&lt;211&gt; 3303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

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 <211> 1315



<212> DNA  
<213> Homo sapiens

<400> 422

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<212> DNA  
<213> Homo sapiens

<400> 423

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<212> DNA
<213> Homo sapiens
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<211> 819
<212> PRT
<213> Homo sapiens
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Asp	Ile	Phe	Asp	Gln	Leu	Ala	Lys	Ser	Leu	Ala	Pro	Ser	Ile	His	Gly
305					310					315					320
His	Asp	Tyr	Val	Lys	Lys	Ala	Ile	Leu	Cys	Leu	Leu	Leu	Gly	Gly	Val
				325					330					335	
Glu	Arg	Asp	Leu	Glu	Asn	Gly	Ser	His	Ile	Arg	Gly	Asp	Ile	Asn	Ile
			340					345					350		
Leu	Leu	Ile	Gly	Asp	Pro	Ser	Val	Ala	Lys	Ser	Gln	Leu	Leu	Arg	Tyr
		355					360					365			
Val	Leu	Cys	Thr	Ala	Pro	Arg	Ala	Ile	Pro	Thr	Thr	Gly	Arg	Gly	Ser
	370					375					380				
Ser	Gly	Val	Gly	Leu	Thr	Ala	Ala	Val	Thr	Thr	Asp	Gln	Glu	Thr	Gly
385					390					395					400
Glu	Arg	Arg	Leu	Glu	Ala	Gly	Ala	Met	Val	Leu	Ala	Asp	Arg	Gly	Val
				405					410					415	
Val	Cys	Ile	Asp	Glu	Phe	Asp	Lys	Met	Ser	Asp	Met	Asp	Arg	Thr	Ala
			420					425					430		
Ile	His	Glu	Val	Met	Glu	Gln	Gly	Arg	Val	Thr	Ile	Ala	Lys	Ala	Gly
			435				440					445			
Ile	His	Ala	Arg	Leu	Asn	Ala	Arg	Cys	Ser	Val	Leu	Ala	Ala	Ala	Asn
	450					455					460				
Pro	Val	Tyr	Gly	Arg	Tyr	Asp	Gln	Tyr	Lys	Thr	Pro	Met	Glu	Asn	Ile
465					470					475					480
Gly	Leu	Gln	Asp	Ser	Leu	Leu	Ser	Arg	Phe	Asp	Leu	Leu	Phe	Ile	Met
				485					490					495	
Leu	Asp	Gln	Met	Asp	Pro	Glu	Gln	Asp	Arg	Glu	Ile	Ser	Asp	His	Val
			500					505					510		
Leu	Arg	Met	His	Arg	Tyr	Arg	Ala	Pro	Gly	Glu	Gln	Asp	Gly	Asp	Ala
		515					520					525			
Met	Pro	Leu	Gly	Ser	Ala	Val	Asp	Ile	Leu	Ala	Thr	Asp	Asp	Pro	Asn
	530					535					540				
Phe	Ser														

Thr Ala Arg Thr Leu Glu Thr Leu Ile Arg Leu Ala Thr Ala His Ala  
 625 630 635 640  
 Lys Ala Arg Met Ser Lys Thr Val Asp Leu Gln Asp Ala Glu Glu Ala  
 645 650 655  
 Val Glu Leu Val Gln Tyr Ala Tyr Phe Lys Lys Val Leu Glu Lys Glu  
 660 665 670  
 Lys Lys Arg Lys Lys Arg Ser Glu Asp Glu Ser Glu Thr Glu Asp Glu  
 675 680 685  
 Glu Glu Lys Ser Gln Glu Asp Gln Glu Gln Lys Arg Lys Arg Arg Lys  
 690 695 700  
 Thr Arg Gln Pro Asp Ala Lys Asp Gly Asp Ser Tyr Asp Pro Tyr Asp  
 705 710 715 720  
 Phe Ser Asp Thr Glu Glu Met Pro Gln Val His Thr Pro Lys Thr  
 725 730 735  
 Ala Asp Ser Gln Glu Thr Lys Glu Ser Gln Lys Val Glu Leu Ser Glu  
 740 745 750  
 Ser Arg Leu Lys Ala Phe Lys Val Ala Leu Leu Asp Val Phe Arg Glu  
 755 760 765  
 Ala His Ala Gln Ser Ile Gly Met Asn Arg Leu Thr Glu Ser Ile Asn  
 770 775 780  
 Arg Asp Ser Glu Glu Pro Phe Ser Ser Val Glu Ile Gln Ala Ala Leu  
 785 790 795 800  
 Ser Lys Met Gln Asp Asp Asn Gln Val Met Val Ser Glu Gly Ile Ile  
 805 810 815  
 Phe Leu Ile

<210> 426  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 426  
 Glu Pro Arg Gly Ser Arg Ala Arg Phe Gly Cys Trp Arg Leu Gln Pro  
 5 10 15  
 Glu Phe Lys Pro Lys Gln Leu Glu Gly Thr Met Ala Asn Cys Glu Arg  
 20 25 30  
 Thr Phe Ile Ala Ile Lys Pro Asp Gly Val Gln Arg Gly Leu Val Gly  
 35 40 45  
 Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly Phe Arg Leu Val Gly Leu  
 50 55 60  
 Lys Phe Met Gln Ala Ser Glu Asp Leu Leu Lys Glu His Tyr Val Asp  
 65 70 75 80  
 Leu Lys Asp Arg Pro Phe Phe Ala Gly Leu Val Lys Tyr Met His Ser  
 85 90 95  
 Gly Pro Val Val Ala Met Val Trp Glu Gly Leu Asn Val Val Lys Thr  
 100 105 110  
 Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp Ser Lys Pro Gly  
 115 120 125  
 Thr Ile Arg Gly Asp Phe Cys Ile Gln Val Gly Arg Asn Ile Ile His  
 130 135 140  
 Gly Ser Asp Ser Val Glu Ser Ala Glu Lys Glu Ile Gly Leu Trp Phe  
 145 150 155 160  
 His Pro Glu Glu Leu Val Asp Tyr Thr Ser Cys Ala Gln Asn Trp Ile

				165						170					175	
Tyr	Glu															
<210>	427															
<211>	570															
<212>	PRT															
<213>	Homo sapiens															
<400>	427															
Thr	Glu	Arg	Ser	Ala	Leu	Asp	Val	Lys	Leu	Lys	His	Ala	Arg	Asn	Gln	
				5					10					15		
Val	Asp	Val	Glu	Ile	Lys	Arg	Arg	Gln	Arg	Ala	Glu	Ala	Asp	Cys	Glu	
			20					25					30			
Lys	Leu	Glu	Arg	Gln	Ile	Gln	Leu	Ile	Arg	Glu	Met	Leu	Met	Cys	Asp	
		35					40					45				
Thr	Ser	Gly	Ser	Ile	Gln	Leu	Ser	Glu	Glu	Gln	Lys	Ser	Ala	Leu	Ala	
	50					55					60					
Phe	Leu	Asn	Arg	Gly	Gln	Pro	Ser	Ser	Ser	Asn	Ala	Gly	Asn	Lys	Arg	
	65				70					75					80	
Leu	Ser	Thr	Ile	Asp	Glu	Ser	Gly	Ser	Ile	Leu	Ser	Asp	Ile	Ser	Phe	
				85					90					95		
Asp	Lys	Thr	Asp	Glu	Ser	Leu	Asp	Trp	Asp	Ser	Ser	Leu	Val	Lys	Thr	
			100					105					110			
Phe	Lys	Leu	Lys	Lys	Arg	Glu	Lys	Arg	Arg	Ser	Thr	Ser	Arg	Gln	Phe	
			115				120					125				
Val	Asp	Gly	Pro	Pro	Gly	Pro	Val	Lys	Lys	Thr	Arg	Ser	Ile	Gly	Ser	
	130					135					140					
Ala	Val	Asp	Gln	Gly	Asn	Glu	Ser	Ile	Val	Ala	Lys	Thr	Thr	Val	Thr	
145					150					155					160	
Val	Pro	Asn	Asp	Gly	Gly	Pro	Ile	Glu	Ala	Val	Ser	Thr	Ile	Glu	Thr	
				165					170					175		
Val	Pro	Tyr	Trp	Thr	Arg	Ser	Arg	Arg	Lys	Thr	Gly	Thr	Leu	Gln	Pro	
			180					185					190			
Trp	Asn	Ser	Asp	Ser	Thr	Leu	Asn	Ser	Arg	Gln	Leu	Glu	Pro	Arg	Thr	
		195				200					205					
Glu	Thr	Asp	Ser	Val	Gly	Thr	Pro	Gln	Ser	Asn	Gly	Gly	Met	Arg	Leu	
	210					215					220					
His	Asp	Phe	Val	Ser	Lys	Thr	Val	Ile	Lys	Pro	Glu	Ser	Cys	Val	Pro	
225					230					235					240	
Cys	Gly	Lys	Arg	Ile	Lys	Phe	Gly	Lys	Leu	Ser	Leu	Lys	Cys	Arg	Asp	
				245					250					255		
Cys	Arg	Val	Val	Ser	His	Pro	Glu	Cys	Arg	Asp	Arg	Cys	Pro	Leu	Pro	
			260					265					270			
Cys	Ile	Pro	Thr	Leu	Ile	Gly	Thr	Pro	Val	Lys	Ile	Gly	Glu	Gly	Met	
	275					280						285				
Leu	Ala	Asp	Phe	Val	S											

Ile His Ala Ile Cys Ser Leu Leu Lys Asp Phe Leu Arg Asn Leu Lys  
 355 360 365  
 Glu Pro Leu Leu Thr Phe Arg Leu Asn Arg Ala Phe Met Glu Ala Ala  
 370 375 380  
 Glu Ile Thr Asp Glu Asp Asn Ser Ile Ala Ala Met Tyr Gln Ala Val  
 385 390 395 400  
 Gly Glu Leu Pro Gln Ala Asn Arg Asp Thr Leu Ala Phe Leu Met Ile  
 405 410 415  
 His Leu Gln Arg Val Ala Gln Ser Pro His Thr Lys Met Asp Val Ala  
 420 425 430  
 Asn Leu Ala Lys Val Phe Gly Pro Thr Ile Val Ala His Ala Val Pro  
 435 440 445  
 Asn Pro Asp Pro Val Thr Met Leu Gln Asp Ile Lys Arg Gln Pro Lys  
 450 455 460  
 Val Val Glu Arg Leu Leu Ser Leu Pro Leu Glu Tyr Trp Ser Gln Phe  
 465 470 475 480  
 Met Met Val Glu Gln Glu Asn Ile Asp Pro Leu His Val Ile Glu Asn  
 485 490 495  
 Ser Asn Ala Phe Ser Thr Pro Gln Thr Pro Asp Ile Lys Val Ser Leu  
 500 505 510  
 Leu Gly Pro Val Thr Thr Pro Glu His Gln Leu Leu Lys Thr Pro Ser  
 515 520 525  
 Ser Ser Ser Leu Ser Gln Arg Val Arg Ser Thr Leu Thr Lys Asn Thr  
 530 535 540  
 Pro Arg Phe Gly Ser Lys Ser Lys Ser Ala Thr Asn Leu Gly Arg Gln  
 545 550 555 560  
 Gly Asn Phe Phe Ala Ser Pro Met Leu Lys  
 565 570

&lt;210&gt; 428

&lt;211&gt; 532

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

Leu Leu Asp Ala Gly Pro Gln Phe Pro Ala Ile Gly Val Gly Ser Phe  
 5 10 15  
 Ala Arg His His His His Ser Ala Ala Ala Ala Ala Ala Ala Ala  
 20 25 30  
 Glu Met Gln Asp Arg Glu Leu Ser Leu Ala Ala Ala Gln Asn Gly Phe  
 35 40 45  
 Val Asp Ser Ala Ala Ala His Met Gly Ala Phe Lys Leu Asn Pro Gly  
 50 55 60  
 Ala His Glu Leu Ser Pro Gly Gln Ser Ser Ala Phe Thr Ser Gln Gly  
 65 70 75 80  
 Pro Gly Ala Tyr Pro Gly Ser Ala Ala Ala Ala Ala Ala Ala Ala  
 85 90 95  
 Leu Gly Pro His Ala Ala His Val Gly Ser Tyr Ser Gly Pro Pro Phe  
 100 105 110  
 Asn Ser Thr Arg Asp Phe Leu Phe Arg Ser Ala Arg Leu Pro Gly Thr  
 115 120 125  
 Ser Ala Pro Gly Gly Gly Gln His Gly Leu Phe Gly Pro Gly Ala Gly  
 130 135 140  
 Gly Leu His His Ala His Ser Asp Ala Gln Gly His Leu Leu Phe Pro

145                      150                      155                      160  
 Gly Leu Pro Glu Gln His Gly Pro His Gly Ser Gln Asn Val Leu Asn  
                                  165                      170                      175  
 Gly Gln Met Arg Leu Gly Leu Pro Gly Glu Val Phe Gly Arg Ser Glu  
                                  180                      185                      190  
 Gln Tyr Arg Gln Val Ala Ser Pro Arg Thr Asp Pro Tyr Ser Ala Ala  
                                  195                      200                      205  
 Gln Leu His Asn Gln Tyr Gly Pro Met Asn Met Asn Met Gly Met Asn  
                                  210                      215                      220  
 Met Ala Ala Ala Ala Ala His His His His His His His His His Pro  
 225                      230                      235                      240  
 Gly Ala Phe Phe Arg Tyr Met Arg Gln Gln Cys Ile Lys Gln Glu Leu  
                                  245                      250                      255  
 Ile Cys Lys Trp Ile Asp Pro Glu Gln Leu Ser Asn Pro Lys Lys Ser  
                                  260                      265                      270  
 Cys Asn Lys Thr Phe Ser Thr Met His Glu Leu Val Thr His Val Ser  
                                  275                      280                      285  
 Val Glu His Val Gly Gly Pro Glu Gln Ser Asn His Val Cys Phe Trp  
                                  290                      295                      300  
 Glu Glu Cys Pro Arg Glu Gly Lys Pro Phe Lys Ala Lys Tyr Lys Leu  
 305                      310                      315                      320  
 Val Asn His Ile Arg Val His Thr Gly Glu Lys Pro Phe Pro Cys Pro  
                                  325                      330                      335  
 Phe Pro Gly Cys Gly Lys Val Phe Ala Arg Ser Glu Asn Leu Lys Ile  
                                  340                      345                      350  
 His Lys Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys Glu Phe Glu  
                                  355                      360                      365  
 Gly Cys Asp Arg Arg Phe Ala Asn Ser Ser Asp Arg Lys Lys His Met  
 370                      375                      380  
 His Val His Thr Ser Asp Lys Pro Tyr Leu Cys Lys Met Cys Asp Lys  
 385                      390                      395                      400  
 Ser Tyr Thr His Pro Ser Ser Leu Arg Lys His Met Lys Val His Glu  
                                  405                      410                      415  
 Ser Ser Pro Gln Gly Ser Glu Ser Ser Pro Ala Ala Ser Ser Gly Tyr  
                                  420                      425                      430  
 Glu Ser Ser Thr Pro Pro Gly Leu Val Ser Pro Ser Ala Glu Pro Gln  
                                  435                      440                      445  
 Ser Ser Ser Asn Leu Ser Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala  
 450                      455                      460  
 Ala Ala Ala Ala Ala Ala Val Ser Ala Val His Arg Gly Gly Gly Ser  
 465                      470                      475                      480  
 Gly Ser Gly Gly Ala Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser Gly  
                                  485                      490                      495  
 Gly Gly Gly Gly Gly Ala Gly Gly Gly Gly Gly Gly Ser Ser Gly Gly  
                                  500                      505                      510  
 Gly Ser Gly Thr Ala Gly Gly His Ser Gly Leu Ser Ser Asn Phe Asn  
                                  515                      520                      525  
 Glu Trp Tyr Val  
 530

&lt;210&gt; 429

&lt;211&gt; 629

&lt;212&gt; PRT





405 410 415  
 Glu Asp Gly Gly Phe Arg His Ser Glu Ala Phe Glu Ala Leu Gln Gln  
 420 425 430  
 Lys Ser Gln Gly Leu Asp Ser Arg Leu Gln His Val Glu Asp Gly Val  
 435 440 445  
 Leu Ser Met Gln Val Ala Ser Ala Arg Gln Thr Glu Ser Leu Glu Ser  
 450 455 460  
 Leu Leu Ser Lys Ser Gln Glu His Glu Gln Arg Leu Ala Pro Ala Gly  
 465 470 475 480  
 Ala Leu Glu Gly Leu Gly Ser Ser Glu Ala Asp Gln Asp Gly Leu Ala  
 485 490 495  
 Ser Thr Val Arg Ser Leu Gly Glu Thr Gln Leu Val Leu Tyr Gly Asp  
 500 505 510  
 Val Glu Glu Leu Lys Arg Ser Val Gly Glu Leu Pro Ser Thr Val Glu  
 515 520 525  
 Ser Leu Gln Lys Val Gln Glu Gln Val His Thr Leu Leu Ser Gln Asp  
 530 535 540  
 Gln Ala Gln Ala Ala Arg Leu Pro Pro Gln Asp Phe Leu Asp Arg Leu  
 545 550 555 560  
 Ser Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln Val Glu Ala Asp  
 565 570 575  
 Leu Lys Met Leu Arg Thr Ala Val Asp Ser Leu Val Ala Tyr Ser Val  
 580 585 590  
 Lys Ile Glu Thr Asn Glu Asn Asn Leu Glu Ser Ala Lys Gly Leu Leu  
 595 600 605  
 Asp Asp Leu Arg Asn Asp Leu Asp Arg Leu Phe Val Lys Val Glu Lys  
 610 615 620  
 Ile His Glu Lys Val  
 625

&lt;210&gt; 430

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 430

Pro Gln Trp Cys Pro Arg Ser Gln Ala Arg Ser Ser Ala Ala Ala Ala  
 5 10 15  
 Ala Arg Ala Ser Val Pro Leu Arg Gly Ser Pro Gly Pro Ser Ala Ile  
 20 25 30  
 Met Pro Met Phe Ile Val Asn Thr Asn Val Pro Arg Ala Ser Val Pro  
 35 40 45  
 Asp Gly Phe Leu Ser Glu Leu Thr Gln Gln Leu Ala Gln Ala Thr Gly  
 50 55 60  
 Lys Pro Pro Gln Tyr Ile Ala Val His Val Val Pro Asp Gln Leu Met  
 65 70 75 80  
 Ala Phe Gly Gly Ser Ser Glu Pro Cys Ala Leu Cys Ser Leu His Ser  
 85 90 95  
 Ile Gly Lys Ile Gly Gly Ala Gln Asn Arg Ser Tyr Ser Lys Leu Leu  
 100 105 110  
 Cys Gly Leu Leu Ala Glu Arg Leu Arg Ile Ser Pro Asp Arg Val Tyr  
 115 120 125  
 Ile Asn Tyr Tyr Asp Met Asn Ala Ala Asn Val Gly Trp Asn Asn Ser

130  
Thr Phe Ala  
145

135

140

<210> 431  
<211> 775  
<212> PRT  
<213> Homo sapiens

<400> 431

Leu	Ala	Pro	Pro	Arg	Gln	Leu	Glu	Ser	Thr	Ser	Ser	Ala	Val	Arg	Leu
				5				10						15	
Thr	Glu	Met	Leu	Arg	Ala	Cys	Gln	Leu	Ser	Gly	Val	Thr	Ala	Ala	Ala
			20				25						30		
Gln	Ser	Cys	Leu	Cys	Gly	Lys	Phe	Val	Leu	Arg	Pro	Leu	Arg	Pro	Cys
		35				40					45				
Arg	Arg	Tyr	Ser	Thr	Ser	Gly	Ser	Ser	Gly	Leu	Thr	Thr	Gly	Lys	Ile
		50				55					60				
Ala	Gly	Ala	Gly	Leu	Leu	Phe	Val	Gly	Gly	Gly	Ile	Gly	Gly	Thr	Ile
	65				70				75						80
Leu	Tyr	Ala	Lys	Trp	Asp	Ser	His	Phe	Arg	Glu	Ser	Val	Glu	Lys	Thr
				85				90						95	
Ile	Pro	Tyr	Ser	Asp	Lys	Leu	Phe	Glu	Met	Val	Leu	Gly	Pro	Ala	Ala
			100					105					110		
Tyr	Asn	Val	Pro	Leu	Pro	Lys	Lys	Ser	Ile	Gln	Ser	Gly	Pro	Leu	Lys
	115					120						125			
Ile	Ser	Ser	Val	Ser	Glu	Val	Met	Lys	Glu	Ser	Lys	Gln	Pro	Ala	Ser
	130					135					140				
Gln	Leu	Gln	Lys	Gln	Lys	Gly	Asp	Thr	Pro	Ala	Ser	Ala	Thr	Ala	Pro
	145				150					155					160
Thr	Glu	Ala	Ala	Gln	Ile	Ile	Ser	Ala	Ala	Gly	Asp	Thr	Leu	Ser	Val
				165					170					175	
Pro	Ala	Pro	Ala	Val	Gln	Pro	Glu	Glu	Ser	Leu	Lys	Thr	Asp	His	Pro
			180					185					190		
Glu	Ile	Gly	Glu	Gly	Lys	Pro	Thr	Pro	Ala	Leu	Ser	Glu	Glu	Ala	Ser
		195					200					205			
Ser	Ser	Ser	Ile	Arg	Glu	Arg	Pro	Pro	Glu	Glu	Val	Ala	Ala	Arg	Leu
	210					215					220				
Ala	Gln	Gln	Glu	Lys	Gln	Glu	Gln	Val	Lys	Ile	Glu	Ser	Leu	Ala	Lys
	225				230					235					240
Ser	Leu	Glu	Asp	Ala	Leu	Arg	Gln	Thr	Ala	Ser	Val	Thr	Leu	Gln	Ala
				245					250					255	
Ile	Ala	Ala	Gln	Asn	Ala	Ala	Val	Gln	Ala	Val	Asn	Ala	His	Ser	Asn
			260					265					270		
Ile	Leu	Lys	Ala	Ala	Met	Asp	Asn	Ser	Glu	Ile	Ala	Gly	Glu	Lys	Lys
		275					280					285			
Ser	Ala	Gln	Trp	Arg	Thr	Val	Glu	Gly	Ala	Leu	Lys	Glu	Arg	Arg	Lys
	290					295					300				
Ala	Val	Asp	Glu	Ala	Ala	Asp	Ala	Leu	Leu	Lys	Ala	Lys	Glu	Glu	Leu
	305				310					315					320
Glu	Lys	Met	Lys	Ser	Val	Ile	Glu	Asn	Ala	Lys	Lys	Lys	Glu	Val	Ala
				325					330					335	
Gly	Ala	Lys	Pro	His	Ile	Thr	Ala	Ala	Glu	Gly	Lys	Leu	His	Asn	Met

			340					345					350			
Ile	Val	Asp	Leu	Asp	Asn	Val	Val	Lys	Lys	Val	Gln	Ala	Ala	Gln	Ser	
		355					360					365				
Glu	Ala	Lys	Val	Val	Ser	Gln	Tyr	His	Glu	Leu	Val	Val	Gln	Ala	Arg	
		370				375					380					
Asp	Asp	Phe	Lys	Arg	Glu	Leu	Asp	Ser	Ile	Thr	Pro	Glu	Val	Leu	Pro	
385					390					395				400		
Gly	Trp	Lys	Gly	Met	Ser	Val	Ser	Asp	Leu	Ala	Asp	Lys	Leu	Ser	Thr	
			405					410					415			
Asp	Asp	Leu	Asn	Ser	Leu	Ile	Ala	His	Ala	His	Arg	Arg	Ile	Asp	Glu	
		420					425					430				
Leu	Asn	Arg	Glu	Leu	Ala	Glu	Gln	Lys	Ala	Thr	Glu	Lys	Gln	His	Ile	
		435				440					445					
Thr	Leu	Ala	Leu	Glu	Lys	Gln	Lys	Leu	Glu	Glu	Lys	Arg	Ala	Phe	Asp	
		450			455						460					
Ser	Ala	Val	Ala	Lys	Ala	Leu	Glu	His	His	Arg	Ser	Glu	Ile	Gln	Ala	
465					470					475				480		
Glu	Gln	Asp	Arg	Lys	Ile	Glu	Glu	Val	Arg	Asp	Ala	Met	Glu	Asn	Glu	
			485					490					495			
Met	Arg	Thr	Gln	Leu	Arg	Arg	Gln	Ala	Ala	Ala	His	Thr	Asp	His	Leu	
			500				505					510				
Arg	Asp	Val	Leu	Arg	Val	Gln	Glu	Gln	Glu	Leu	Lys	Ser	Glu	Phe	Glu	
		515				520						525				
Gln	Asn	Leu	Ser	Glu	Lys	Leu	Ser	Glu	Gln	Glu	Leu	Gln	Phe	Arg	Arg	
		530			535						540					
Leu	Ser	Gln	Glu	Gln	Val	Asp	Asn	Phe	Thr	Leu	Asp	Ile	Asn	Thr	Ala	
545					550					555				560		
Tyr	Ala	Arg	Leu	Arg	Gly	Ile	Glu	Gln	Ala	Val	Gln	Ser	His	Ala	Val	
			565					570					575			
Ala	Glu	Glu	Glu	Ala	Arg	Lys	Ala	His	Gln	Leu	Trp	Leu	Ser	Val	Glu	
			580				585					590				
Ala	Leu	Lys	Tyr	Ser	Met	Lys	Thr	Ser	Ser	Ala	Glu	Thr	Pro	Thr	Ile	
		595				600					605					
Pro	Leu	Gly	Ser	Ala	Val	Glu	Ala	Ile	Lys	Ala	Asn	Cys	Ser	Asp	Asn	
		610			615						620					
Glu	Phe	Thr	Gln	Ala	Leu	Thr	Ala	Ala	Ile	Pro	Pro	Glu	Ser	Leu	Thr	
625					630					635				640		
Arg	Gly	Val	Tyr	Ser	Glu	Glu	Thr	Leu	Arg	Ala	Arg	Phe	Tyr	Ala	Val	
			645					650					655			
Gln	Lys	Leu	Ala	Arg	Arg	Val	Ala	Met	Ile	Asp	Glu	Thr	Arg	Asn	Ser	
			660				665					670				
Leu	Tyr	Gln	Tyr	Phe	Leu	Ser	Tyr	Leu	Gln	Ser	Leu	Leu	Leu	Phe	Pro	
		675				680					685					
Pro	Gln	Gln	Leu	Lys	Pro	Pro	Pro	Glu	Leu	Cys	Pro	Glu	Asp	Ile	Asn	
		690			69											

770

775

&lt;210&gt; 432

&lt;211&gt; 741

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

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Arg Pro Lys Arg Leu Arg Thr Gly Asn Met Val Arg Ser Gly Asn Lys
                    5                      10                      15
Ala Ala Val Val Leu Cys Met Asp Val Gly Phe Thr Met Ser Asn Ser
                    20                      25                      30
Ile Pro Gly Ile Glu Ser Pro Phe Glu Gln Ala Lys Lys Val Ile Thr
                    35                      40                      45
Met Phe Val Gln Arg Gln Val Phe Ala Glu Asn Lys Asp Glu Ile Ala
                    50                      55                      60
Leu Val Leu Phe Gly Thr Asp Gly Thr Asp Asn Pro Leu Ser Gly Gly
                    65                      70                      75                      80
Asp Gln Tyr Gln Asn Ile Thr Val His Arg His Leu Met Leu Pro Asp
                    85                      90                      95
Phe Asp Leu Leu Glu Asp Ile Glu Ser Lys Ile Gln Pro Gly Ser Gln
                    100                     105                     110
Gln Ala Asp Phe Leu Asp Ala Leu Ile Val Ser Met Asp Val Ile Gln
                    115                     120                     125
His Glu Thr Ile Gly Lys Lys Phe Glu Lys Arg His Ile Glu Ile Phe
                    130                     135                     140
Thr Asp Leu Ser Ser Arg Phe Ser Lys Ser Gln Leu Asp Ile Ile Ile
                    145                     150                     155                     160
His Ser Leu Lys Lys Cys Asp Ile Ser Leu Gln Phe Phe Leu Pro Phe
                    165                     170                     175
Ser Leu Gly Lys Glu Asp Gly Ser Gly Asp Arg Gly Asp Gly Pro Phe
                    180                     185                     190
Arg Leu Gly Gly His Gly Pro Ser Phe Pro Leu Lys Gly Ile Thr Glu
                    195                     200                     205
Gln Gln Lys Glu Gly Leu Glu Ile Val Lys Met Val Met Ile Ser Leu
                    210                     215                     220
Glu Gly Glu Asp Gly Leu Asp Glu Ile Tyr Ser Phe Ser Glu Ser Leu
                    225                     230                     235                     240
Arg Lys Leu Cys Val Phe Lys Lys Ile Glu Arg His Ser Ile His Trp
                    245                     250                     255
Pro Cys Arg Leu Thr Ile Gly Ser Asn Leu Ser Ile Arg Ile Ala Ala
                    260                     265                     270
Tyr Lys Ser Ile Leu Gln Glu Arg Val Lys Lys Thr Trp Thr Val Val
                    275                     280                     285
Asp Ala Lys Thr Leu Lys Lys Glu Asp Ile Gln Lys Glu Thr Val Tyr
                    290                     295                     300
Cys Leu Asn Asp Asp Asp Glu Thr Glu Val Leu Lys Glu Asp Ile Ile
                    305                     310                     315                     320
Gln Gly Phe Arg Tyr Gly Ser Asp Ile Val Pro Phe Ser Lys Val Asp
                    325                     330                     335
Glu Glu Gln Met Lys Tyr Lys Ser Glu Gly Lys Cys Phe Ser Val Leu
                    340                     345                     350
Gly Phe Cys Lys Ser Ser Gln Val Gln Arg Arg Phe Phe Met Gly Asn

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      355              360              365
Gln Val Leu Lys Val Phe Ala Ala Arg Asp Asp Glu Ala Ala Ala Val
  370              375              380
Ala Leu Ser Ser Leu Ile His Ala Leu Asp Asp Leu Asp Met Val Ala
385              390              395              400
Ile Val Arg Tyr Ala Tyr Asp Lys Arg Ala Asn Pro Gln Val Gly Val
      405              410              415
Ala Phe Pro His Ile Lys His Asn Tyr Glu Cys Leu Val Tyr Val Gln
      420              425              430
Leu Pro Phe Met Glu Asp Leu Arg Gln Tyr Met Phe Ser Ser Leu Lys
      435              440              445
Asn Ser Lys Lys Tyr Ala Pro Thr Glu Ala Gln Leu Asn Ala Val Asp
      450              455              460
Ala Leu Ile Asp Ser Met Ser Leu Ala Lys Lys Asp Glu Lys Thr Asp
465              470              475              480
Thr Leu Glu Asp Leu Phe Pro Thr Thr Lys Ile Pro Asn Pro Arg Phe
      485              490              495
Gln Arg Leu Phe Gln Cys Leu Leu His Arg Ala Leu His Pro Arg Glu
      500              505              510
Pro Leu Pro Pro Ile Gln Gln His Ile Trp Asn Met Leu Asn Pro Pro
      515              520              525
Ala Glu Val Thr Thr Lys Ser Gln Ile Pro Leu Ser Lys Ile Lys Thr
      530              535              540
Leu Phe Pro Leu Ile Glu Ala Lys Lys Lys Asp Gln Val Thr Ala Gln
545              550              555              560
Glu Ile Phe Gln Asp Asn His Glu Asp Gly Pro Thr Ala Lys Lys Leu
      565              570              575
Lys Thr Glu Gln Gly Gly Ala His Phe Ser Val Ser Ser Leu Ala Glu
      580              585              590
Gly Ser Val Thr Ser Val Gly Ser Val Asn Pro Ala Glu Asn Phe Arg
      595              600              605
Val Leu Val Lys Gln Lys Lys Ala Ser Phe Glu Glu Ala Ser Asn Gln
      610              615              620
Leu Ile Asn His Ile Glu Gln Phe Leu Asp Thr Asn Glu Thr Pro Tyr
625              630              635              640
Phe Met Lys Ser Ile Asp Cys Ile Arg Ala Phe Arg Glu Glu Ala Ile
      645              650              655
Lys Phe Ser Glu Glu Gln Arg Phe Asn Asn Phe Leu Lys Ala Leu Gln
      660              665              670
Glu Lys Val Glu Ile Lys Gln Leu Asn His Phe Trp Glu Ile Val Val
      675              680              685
Gln Asp Gly Ile Thr Leu Ile Thr Lys Glu Glu Ala Ser Gly Ser Ser
      690              695              700
Val Thr Ala Glu Glu Ala Lys Lys Phe Leu Ala Pro Lys Asp Lys Pro
705              710              715              720
Ser Gly Asp Thr Ala Val Phe Glu Glu Gly Gly Asp Val Asp Asp
      725              730              735
Leu Leu Asp Met Ile
      740

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&lt;210&gt; 433

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 433

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Phe Arg Pro Arg Tyr Glu Gly Arg Gly Arg Gly Cys Cys Gly Arg Val
      5                      10                      15
Leu Leu Leu Arg Arg Gly Leu His Val Asp Cys Gly Lys Leu Gly Asn
      20                      25                      30
Lys Leu Thr Ser Ser Cys Gly Lys Pro Ser Ser Asn Arg Met Ser Leu
      35                      40                      45
Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr Ala Glu Val Phe Val Val
      50                      55                      60
Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro Lys Arg Trp Gln Lys Ile
      65                      70                      75                      80
Phe Lys Ser Arg Leu Val Glu Leu Leu Val Ser Tyr Gly Asn Thr Phe
      85                      90                      95
Phe Val Val Leu Ile Val Ile Leu Val Leu Val Ile Asp Ala Val
      100                     105                     110
Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr Glu Lys Val Asn Leu Gln
      115                     120                     125
Asn Asn Pro Gly Ala Met Glu His Phe His Met Lys Leu Phe Arg Ala
      130                     135                     140
Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser Leu Leu Leu Ser Phe Leu
      145                     150                     155                     160
Leu Arg Arg Leu Val Thr Leu Ile Ser Gln Gln Ala Thr Leu Leu Ala
      165                     170                     175
Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu Ser Ala Ser Glu Ala Ala
      180                     185                     190
Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu Lys Lys Gly Ala Ala Val
      195                     200                     205
Asp Gly Gly Lys Leu Asp Val Gly Asn Ala Glu Val Lys Leu Glu Glu
      210                     215                     220
Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln Lys Leu Lys Asp Glu Leu
      225                     230                     235                     240
Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala Glu Asn Gln Val Leu Ala
      245                     250                     255
Met Arg Lys Gln Ser Glu Gly Leu Thr Lys Glu Tyr Asp Arg Leu Leu
      260                     265                     270
Glu Glu His Ala Lys Leu Gln Ala Ala Val Asp Gly Pro Met Asp Lys
      275                     280                     285
Lys Glu Glu
      290

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&lt;210&gt; 434

&lt;211&gt; 349

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

```

Gly Val Ala Pro Trp Gly Arg Gly Arg Ala Ala Pro Arg Cys Ala Ser
      5                      10                      15
Ala Thr Val Gly Gly Ser Gly Ile Gly Arg Leu Arg Gly Ile Thr Ser
      20                      25                      30
Ser Gly Leu Lys Met Asp Asn Lys Lys Arg Leu Ala Tyr Ala Ile Ile

```

```

          35          40          45
Gln Phe Leu His Asp Gln Leu Arg His Gly Gly Leu Ser Ser Asp Ala
   50          55          60
Gln Glu Ser Leu Glu Val Ala Ile Gln Cys Leu Glu Thr Ala Phe Gly
   65          70          75          80
Val Thr Val Glu Asp Ser Asp Leu Ala Leu Pro Gln Thr Leu Pro Glu
          85          90          95
Ile Phe Glu Ala Ala Ala Thr Gly Lys Glu Met Pro Gln Asp Leu Arg
          100          105          110
Ser Pro Ala Arg Thr Pro Pro Ser Glu Glu Asp Ser Ala Glu Ala Glu
          115          120          125
Arg Leu Lys Thr Glu Gly Asn Glu Gln Met Lys Val Glu Asn Phe Glu
          130          135          140
Ala Ala Val His Phe Tyr Gly Lys Ala Ile Glu Leu Asn Pro Ala Asn
          145          150          155          160
Ala Val Tyr Phe Cys Asn Arg Ala Ala Ala Tyr Ser Lys Leu Gly Asn
          165          170          175          180
Tyr Ala Gly Ala Val Gln Asp Cys Glu Arg Ala Ile Cys Ile Asp Pro
          185          190          195
Ala Tyr Ser Lys Ala Tyr Gly Arg Met Gly Leu Ala Leu Ser Ser Leu
          200          205          210
Asn Lys His Val Glu Ala Val Ala Tyr Tyr Lys Lys Ala Leu Glu Leu
          215          220          225
Asp Pro Asp Asn Glu Thr Tyr Lys Ser Asn Leu Lys Ile Ala Glu Leu
          230          235          240
Lys Leu Arg Glu Ala Pro Ser Pro Thr Gly Gly Val Gly Ser Phe Asp
          245          250          255
Ile Ala Gly Leu Leu Asn Asn Pro Gly Phe Met Ser Met Ala Ser Asn
          260          265          270
Leu Met Asn Asn Pro Gln Ile Gln Gln Leu Met Ser Gly Met Ile Ser
          275          280          285
Gly Gly Asn Asn Pro Leu Gly Thr Pro Gly Thr Ser Pro Ser Gln Asn
          290          295          300
Asp Leu Ala Ser Leu Ile Gln Ala Gly Gln Gln Phe Ala Gln Gln Met
          305          310          315          320
Gln Gln Gln Asn Pro Glu Leu Ile Glu Gln Leu Arg Ser Gln Ile Arg
          325          330          335
Ser Arg Thr Pro Ser Ala Ser Asn Asp Asp Gln Gln Glu
          340          345

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&lt;210&gt; 435

&lt;211&gt; 519

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

```

Gln Pro Ser Ala Glu Pro Arg Arg Thr Met Pro Ala Val Asp Lys Leu
          5          10          15
Leu Leu Glu Glu Ala Leu Gln Asp Ser Pro Gln Thr Arg Ser Leu Leu
          20          25          30
Ser Val Phe Glu Glu Asp Ala Gly Thr Leu Thr Asp Tyr Thr Asn Gln
          35          40          45
Leu Leu Gln Ala Met Gln Arg Val Tyr Gly Ala Gln Asn Glu Met Cys

```



50	55	60
Leu Ala Thr Gln Gln	Leu Ser Lys Gln Leu Leu	Ala Tyr Glu Lys Gln
65	70	75
Asn Phe Ala Leu Gly	Lys Gly Asp Glu Glu Val	Ile Ser Thr Leu His
85	90	95
Tyr Phe Ser Lys Val	Val Asp Glu Leu Asn Leu	Leu His Thr Glu Leu
100	105	110
Ala Lys Gln Leu Ala	Asp Thr Met Val Leu Pro	Ile Ile Gln Phe Arg
115	120	125
Glu Lys Asp Leu Thr	Glu Val Ser Thr Leu Lys	Asp Leu Phe Gly Leu
130	135	140
Ala Ser Asn Glu His	Asp Leu Ser Met Ala Lys	Tyr Ser Arg Leu Pro
145	150	155
Lys Lys Lys Glu Asn	Glu Lys Val Lys Thr Glu	Val Gly Lys Glu Val
165	170	175
Ala Ala Ala Arg Arg	Lys Gln His Leu Ser Ser	Leu Gln Tyr Tyr Cys
180	185	190
Ala Leu Asn Ala Leu	Gln Tyr Arg Lys Gln Met	Ala Met Met Glu Pro
195	200	205
Met Ile Gly Phe Ala	His Gly Gln Ile Asn Phe	Phe Lys Lys Gly Ala
210	215	220
Glu Met Phe Ser Lys	Arg Met Asp Ser Phe Leu	Ser Ser Val Ala Asp
225	230	235
Met Val Gln Ser Ile	Gln Val Glu Leu Glu Ala	Glu Ala Glu Lys Met
245	250	255
Arg Val Ser Gln Gln	Glu Leu Leu Ser Val Asp	Glu Ser Val Tyr Thr
260	265	270
Pro Asp Ser Asp Val	Ala Ala Pro Gln Ile Asn	Arg Asn Leu Ile Gln
275	280	285
Lys Ala Gly Tyr Leu	Asn Leu Arg Asn Lys Thr	Gly Leu Val Thr Thr
290	295	300
Thr Trp Glu Arg Leu	Tyr Phe Phe Thr Gln Gly	Asn Leu Met Cys
305	310	315
Gln Pro Arg Gly Ala	Val Ala Gly Gly Leu Ile	Gln Asp Leu Asp Asn
325	330	335
Cys Ser Val Met Ala	Val Asp Cys Glu Asp Arg	Arg Tyr Cys Phe Gln
340	345	350
Ile Thr Thr Pro Asn	Gly Lys Ser Gly Ile Ile	Leu Gln Ala Glu Ser
355	360	365
Arg Lys Glu Asn Glu	Glu Trp Ile Cys Ala Ile	Asn Asn Thr Ser Arg
370	375	380
Gln Ile Tyr Leu Thr	Asp Asn Pro Glu Ala Val	Ala Ile Lys Leu Asn
385	390	395
Gln Thr Ala Leu Gln	Ala Val Thr Pro Ile Thr	Ser Phe Gly Lys Lys
405	410	415
Gln Glu Ser Ser Cys	Pro Ser Gln Asn Leu Lys	Asn Ser Glu Met Glu
420	425	430
Asn Glu Asn Asp Lys	Ile Val Pro Lys Ala Thr	Ala Ser Leu Pro Glu
435	440	445
Ala Glu Glu Leu Ile	Ala Pro Gly Thr Pro Ile	Gln Phe Asp Ile Val
450	455	460
Leu Pro Ala Thr Glu	Phe Leu Asp Gln Asn Arg	Gly Ser Arg Arg Thr
465	470	475
Asn Pro Phe Gly Glu	Thr Glu Asp Glu Ser Phe	Pro Glu Ala Glu Asp

```
<210> 436
<211> 357
<212> PRT
<213> Homo sapiens
```

<400>	436														
Met	Leu	Gln	Ile	His	Leu	Pro	Gly	Arg	His	Thr	Leu	Phe	Val	Arg	Ala
				5					10					15	
Met	Ile	Asp	Ser	Gly	Ala	Ser	Gly	Asn	Phe	Ile	Asp	His	Glu	Tyr	Val
			20					25					30		
Ala	Gln	Asn	Gly	Ile	Pro	Leu	Arg	Ile	Lys	Asp	Trp	Pro	Ile	Leu	Val
			35				40					45			
Glu	Ala	Ile	Asp	Gly	Arg	Pro	Ile	Ala	Ser	Gly	Pro	Val	Val	His	Glu
	50					55					60				
Thr	His	Asp	Leu	Ile	Val	Asp	Leu	Gly	Asp	His	Arg	Glu	Val	Leu	Ser
	65				70					75				80	
Phe	Asp	Val	Thr	Gln	Ser	Pro	Phe	Phe	Pro	Val	Val	Leu	Gly	Val	Arg
				85					90					95	
Trp	Leu	Ser	Thr	His	Asp	Pro	Asn	Ile	Thr	Trp	Ser	Thr	Arg	Ser	Ile
			100					105					110		
Val	Phe	Asp	Ser	Glu	Tyr	Cys	Arg	Tyr	His	Cys	Arg	Met	Tyr	Ser	Pro
			115				120					125			
Ile	Pro	Pro	Ser	Leu	Pro	Pro	Pro	Ala	Pro	Gln	Pro	Pro	Leu	Tyr	Tyr
	130					135					140				
Pro	Val	Asp	Gly	Tyr	Arg	Val	Tyr	Gln	Pro	Val	Arg	Tyr	Tyr	Tyr	Val
145					150					155					160
Gln	Asn	Val	Tyr	Thr	Pro	Val	Asp	Glu	His	Val	Tyr	Pro	Asp	His	Arg
				165					170					175	
Leu	Val	Asp	Pro	His	Ile	Glu	Met	Ile	Pro	Gly	Ala	His	Ser	Ile	Pro
			180					185					190		
Ser	Gly	His	Val	Tyr	Ser	Leu	Ser	Glu	Pro	Glu	Met	Ala	Ala	Leu	Arg
		195					200					205			
Asp	Phe	Val	Ala	Arg	Asn	Val	Lys	Asp	Gly	Leu	Ile	Thr	Pro	Thr	Ile
	210					215					220				
Ala	Pro	Asn	Gly	Ala	Gln	Val	Leu	Gln	Val	Lys	Arg	Gly	Trp	Lys	Leu
225					230					235					240
Gln	Val	Ser	Tyr	Asp	Cys	Arg	Ala	Pro	Asn	Asn	Phe	Thr	Ile	Gln	Asn
				245					250					255	
Gln	Tyr	Pro	Arg	Leu	Ser	Ile	Pro	Asn	Leu	Glu	Asp	Gln	Ala	His	Leu
			260					265					270		
Ala	Thr	Tyr	Thr	Glu	Phe	Val	Pro	Gln	Ile	Pro	Gly	Tyr	Gln	Thr	Tyr
		275					280					285			
Pro	Thr	Tyr	Ala	Ala	Tyr	Pro	Thr	Tyr	Pro	Val	Gly	Phe	Ala	Trp	Tyr
	290					295					300				
Pro	Val	Gly	Arg	Asp	Gly	Gln	Gly	Arg	Ser	Leu	Tyr	Val	Pro	Val	Met
305					310					315					320
Ile	Thr	Trp	Asn	Pro	His	Trp	Tyr	Arg	Gln	Pro	Pro	Val	Pro	Gln	Tyr

325 330 335  
 Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro  
 340 345 350  
 Ser Tyr Ser Thr Leu  
 355

<210> 437  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 437  
 cgcaccagct ctctgctctc ccagcgcagc gccgcgcgcc ggcccctcca gcttcccgga 60  
 ccatggccaa cctggagcgc accttcacgc ccatcaagcc ggacggcgtg cagcgcggcc 120  
 tgggtgggca gatcatcaag cgcttcgagc agaagggatt ccgcctcgtg gccatgaagt 180  
 tcctccgggc ctctgaagaa cacctgaagc agcactacat tgacctgaaa gaccgaccat 240  
 tcttccctgg gctggtgaag tacatgaact cagggccggt tgtggccatg gtctgggagg 300  
 ggctgaacgt ggtgaagaca ggccgagtga tgcttgggga gaccaatcca gcagattcaa 360  
 agccaggcac cattcgtggg gacttctgca ttcagggttg caggaacatc attcatggca 420  
 gtgattcagt aaaaagtgtc gaaaaagaaa tcanccctatg gtttaagcct gaanaactgg 480  
 ttgactacaa gtcttgtgct c 501

<210> 438  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 438  
 tgaaatactg gagctgttgt agaagaaaaa cttctgattt taatacattc ttagcccaag 60  
 agggctgtac aaaagggaaa cacatgtgga ctaaaaaaga tgctgggaaa aaagtgttgc 120  
 catgtagaca tgactggcat cagactggag ggtgaaagtt ccatttcagt atatgctaaa 180  
 aactcacttc cagaacttag ccgagtagaa gcaaatagca cattgttaaa tgtgcatatt 240  
 gtatttgaag gagagaagga atttgatcaa aatgtgaaat tatgggggtg gattgatgta 300  
 aagcgaagtt atgtaactat gactgcaaca aagattgaaa tcactatgag aaaagctgaa 360  
 ccgatgcagt gggcaagcct tgaactgcct gcagctaaaa agcaggaaaa acaaaaagat 420  
 gacacaacag attgagtggg agatggaagg aaggctatta cattatttcc gaatttttaa 480  
 tactgtgtga agtggtgggc t 501

<210> 439  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 439  
 taaaacaagc acttgataaa cttaaactgt catcagggaa tgaagaaaat aagaaagaag 60  
 aagacaatga tgaaattaag attgggacct catgtaagaa tggagggtgt tcaaagacat 120  
 accagggtct agagagtcta gaagaagtct gtgtatatca ttctggagta cctattttcc 180

```
<210> 440
<211> 481
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G
```

<400>	440						
tgatccctat	tgttttgtgg	agtttcatga	gcacgcgtcat	gcagctgcag	cattagctgc		60
tatgaatgga	cggaagataa	tgggtaagga	agtcaaagt	aattgggcaa	caacccttag		120
cagtcaaaag	aaagatacaa	gcaatcattt	ccatgtcttt	gttggtgato	tcagcccaga		180
aattacaact	gaagatataa	aagctgcttt	tgcaccattt	ggaagaatat	cagatgcccg		240
agtggtaaaa	gacatggcaa	caggaaagtc	taagggatat	ggctttgtct	cctttttcaa		300
caaatgggat	gctgaaaacg	ccattcaaca	gatgggtggc	cagtggcttg	gtggaagaca		360
aatcagaact	aactgggcaa	cccgaagcc	tccgcctcca	aagagtacat	atgagtcaaa		420
taccaaacag	ctatcatatg	atganggtgt	aatcagtcct	aatccaagca	actgtctgta		480
t							481